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ANNOUNCEMENT

OF THE

MEDICAL SCHOOL

LONGWOOD AVENUE, BOSTON, MASS.

OF

HARVARD UNIVERSITY

FOR

1908-09

SECOND EDITION

CAMBRIDGE
Published by the University
1908

1908.

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MEDICAL SCHOOL CALENDAR.

1908.

Sept. 24, Thursday.	Examinations begin for applicants for advanced standing, and for men previously conditioned.
Sept. 30, Wednesday.	Examination in Chemistry for admission.
Oct. 1, Thursday.	Academic Year begins. Registration of Students. Payment of the first instalment of the tuition-fee is required on or before this date.
Oct. 1, Thursday.	Last day for receiving applications for the Bullard Fellowships.
Oct. 31, Saturday.	Last day for receiving essays for the William H. Thorndike Prize.
Nov. 26, Thursday.	Thanksgiving Day: a holiday.
Nov. 30, Monday.	Last day for receiving applications for the Cheever and Hayden Scholarships.

Recess from Dec. 23, 1908, to Jan. 2, 1909, inclusive.

1909.

Jan. 1, Friday.	Last day for receiving dissertations for the Boylston Medical Prizes.
Jan. 15, Friday.	Last day for receiving applications from students in the Professional Schools to be qualified for the degree of A.M. in 1909.
Jan. 29, Friday.	Mid-year Examinations begin.
Jan. 30, Saturday.	Payment of the second instalment of the tuition-fee is required on or before this date.
Feb. 1, Monday.	Second half-year begins.
Feb. 22, Monday.	Washington's Birthday: a holiday.
April 1, Thursday.	Last day for receiving dissertations for the Bowdoin Prizes.

Recess from April 18 to April 24, inclusive.

May 1, Saturday.	Last day for receiving dissertations for the Dante, Toppan, and Sumner Prizes.
May 1, Saturday.	Last day for receiving applications of candidates for the degree of M.D. in 1909.
May 31, Monday.	Memorial Day: a holiday.
June 1, Tuesday.	Last day for receiving applications for Scholarships for 1909–10 (except the Cheever and Hayden Scholarships).
June 1, Tuesday.	Examinations begin.
June 30, Wednesday.	**Commencement.**

Summer Vacation of Thirteen Weeks, from Commencement to September 29, inclusive.

July 1, Thursday.	Examination in Chemistry for admission.
Sept. 23, Thursday.	Examinations begin for applicants for advanced standing, and for men previously conditioned.
Sept. 29, Wednesday.	Examination in Chemistry for admission.
Sept. 30, Thursday.	**Academic Year begins.** Registration of Students. Payment of the first instalment of the tuition-fee is required on or before this date.
Oct. 1, Friday.	Last day for receiving applications for the Bullard Fellowships.
Nov. 1, Monday.	Last day for receiving essays for the William H. Thorndike Prize.
Nov. 25, Thursday.	Thanksgiving Day: a holiday.
Nov. 30, Tuesday.	Last day for receiving applications for the Cheever and Hayden Scholarships.

THE MEDICAL SCHOOL.

FACULTY OF MEDICINE.*

ADDRESS.†

CHARLES W. ELIOT, A.M., LL.D., PRESIDENT, 17 Quincy St., Cambridge.

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WILLIAM F. WHITNEY, M.D., *John Barnard Swett Jackson Curator of the Warren Anatomical Museum*, Harvard Medical School.

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* Arranged on the basis of collegiate seniority.

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HAROLD C. ERNST, M.D., *Professor of Bacteriology*, Harvard Medical School.

PHILIP COOMBS KNAPP, M.D., *Clinical Instructor in Diseases of the Nervous System*, 535 Beacon St.

WILLIAM H. POTTER, D.M.D., *Professor of Operative Dentistry*, 16 Arlington St.

HERMAN F. VICKERY, M.D., *Instructor in Clinical Medicine*, 263 Beacon St.

JOHN T. BOWEN, M.D., *Edward Wigglesworth Professor of Dermatology*, 14 Marlborough St.

HENRY JACKSON, M.D., *Instructor in Clinical Medicine*, 380 Marlborough St.

GEORGE G. SEARS, M.D., *Assistant Professor of Clinical Medicine*, 426 Beacon St.

ALGERNON COOLIDGE, Jr., M.D., *Assistant Professor of Laryngology*, 613 Beacon St.

FRANZ PFAFF, M.D., *Professor of Pharmacology and Therapeutics*, 29 Gloucester St.

THEOBALD SMITH, M.D., LL.D., *George Fabyan Professor of Comparative Pathology*, Harvard Medical School.

WILLIAM T. PORTER, M.D., LL.D., *Professor of Comparative Physiology*, Harvard Medical School.

JAMES G. MUMFORD, M.D., *Instructor in Surgery*, 29 Commonwealth Ave.

FRANK B. MALLORY, M.D., *Associate Professor of Pathology*, Harvard Medical School.

EDWARD H. NICHOLS, M.D., *Assistant Professor of Surgical Pathology*, 294 Marlborough St.

JOHN B. BLAKE, M.D., *Instructor in Surgery*, 161 Beacon St.

HOWARD A. LOTHROP, M.D., *Instructor in Surgery*, 101 Beacon St.

JOHN L. MORSE, M.D., *Assistant Professor of Pediatrics*, 70 Bay State Road.

CHARLES A. PORTER, M.D., *Instructor in Surgery*, 254 Beacon St.

EDWARD W. TAYLOR, M.D., *Instructor in Neurology*, 457 Marlborough St.

RICHARD C. CABOT, M.D., *Assistant Professor of Clinical Medicine*, 190 Marlborough St.

ELLIOTT P. JOSLIN, M.D., *Instructor in the Theory and Practice of Physic*, 81 Bay State Road.

JAMES H. WRIGHT, M.D., Sc.D., *Assistant Professor of Pathology*, Mass. General Hospital.

OTTO FOLIN, Ph.D., *Associate Professor of Biological Chemistry*, Harvard Medical School.

ROBERT B. GREENOUGH, M.D., *Instructor in Surgery*, 377 Beacon St.

FRANKLIN S. NEWELL, M.D., *Assistant Professor of Obstetrics and Gynaecology*, 379 Beacon St.

LEONARD W. WILLIAMS, Ph.D., *Instructor in Comparative Anatomy*, Harvard Medical School.

JOHN L. BREMER, M.D., *Demonstrator of Histology*, Harvard Medical School.

WALTER B. CANNON, M.D., *George Higginson Professor of Physiology*, Harvard Medical School.

MAURICE V. TYRODE, M.D., *Instructor in Pharmacology*, 416 Marlborough St.

JOHN WARREN, M.D., *Assistant Professor of Anatomy*, Harvard Medical School.

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ELMER E. SOUTHARD, M.D., *Assistant Professor of Neuropathology*, 37 Trowbridge St., Cambridge.

LAWRENCE J. HENDERSON, M.D., *Instructor in Biological Chemistry*, Westmorly 2, Cambridge.

CHANNING FROTHINGHAM, Jr., M.D., *Secretary of the Faculty of Medicine*, and *Assistant in the Theory and Practice of Physic*, 845 Boylston St.

STANDING COMMITTEES FOR THE MEDICAL SCHOOL.

Buildings. — Dr. J. Warren (*Chairman*), and Drs. Bremer and C. Frothingham, Jr.

Course of Study. — Dr. Christian (*Chairman*), and Drs. Shattuck, Minot, Burrell, Mallory, Cannon, and Taylor.

Library. — Dr. Joslin (*Chairman*), and Drs. Minot, W. T. Porter, Southard, and Tyrode.

Admission. — Dr. Christian (*Chairman*), and Drs. Folin and Lewis.

Students' Health. — Dr. Ernst (*Chairman*), and Drs. Putnam, E. H. Smith, J. B. Blake, and Badger.

THE HARVARD MEDICAL SCHOOL.

BOSTON.

GENERAL STATEMENT.

Three professorships of Medicine were established at the University in the years 1782 and 1783. The first degrees in Medicine were conferred in 1788. Before 1811, the degree conferred upon graduates of the School was that of Bachelor of Medicine; beginning with 1811, the degree has been Doctor of Medicine. In 1810, the lectures given in Medicine were transferred from Cambridge to Boston, where the first Medical College was built in 1815.

The course of study required in this School for the degree of M.D. is of four years' duration. This requirement was established at the beginning of the year 1892–93.

The academic year begins on the Thursday following the last Wednesday in September, and ends on the last Wednesday in June. In order that the time of study shall count as a full year, students of all classes must present themselves on the first day of the school year and register their names with the Secretary.

There is a Christmas recess from December 23 to January 2 inclusive, and a recess of one week's duration in April.

Beginning with the year 1899–1900 a new arrangement of the subjects taught in the first two years was adopted. During the first half of the first year the students devote their time solely to Anatomy and Histology, and during the second half of the first year to Physiology and Biological Chemistry. They devote the first half of the second year to Pathology and Bacteriology, and the remainder of the second year to a variety of subjects which more particularly prepare the student for the clinical work of the third and fourth years.

Experience has shown that this logical arrangement of the subjects of the first two years enables a student to concentrate his energies to a much greater advantage than he can when his attention is divided among several subjects. Each correlated group presents sufficient variety to avoid monotony. Another advantage of this method is that it greatly increases the amount of time which can be devoted to each subject.

In 1902 certain other changes in the curriculum were adopted, to take effect with the class entering in the autumn of that year. The new course of study is so arranged that the first three years are devoted to prescribed work, and the fourth year entirely to elective courses. A minimum of one thousand hours' work is required of each fourth-year student; and courses are offered adapted to the student who wishes to fit himself to be a general practitioner, and also suitable courses for those who intend to become specialists or teachers in any department of medicine. The new elective curriculum of the fourth year began in the autumn of 1905.

A series of written, oral, and practical examinations on all the required subjects of medical instruction are distributed throughout the four years' course of study. Every candidate for the degree of Doctor of Medicine must pass these examinations in a satisfactory manner, and also fulfil all the other requirements enumerated on page 65.

The degree of Doctor of Medicine *cum laude* is given to candidates who obtain an average of 80 per cent. or over in all the required examinations.

Beginning in 1906, special students, not candidates for the degree of Doctor of Medicine, will be admitted, under certain conditions, to all courses in the School and to certain courses specially designed for them. For particulars, see page 77.

Pamphlets descriptive of the many courses of study for Graduates, and of the Summer Courses, may be obtained on application.

Inquiries may be addressed to the Secretary of the Harvard Medical School, Longwood Avenue, Boston, Mass.

The New Buildings.

In September, 1906, the Medical School removed from its quarters on Boylston Street to commodious new buildings on Longwood Avenue, distant about a mile from the old building. At the new site the School possesses twenty-six acres of land. Eleven acres are now occupied by the Medical School buildings; the other fifteen are reserved for hospitals which, it is hoped, will be built on this ground in the near future.

The new buildings are five in number: one is designed for administrative and four for laboratory purposes. The administration building contains the necessary offices, several lecture rooms, and the Warren Anatomical Museum. The laboratory buildings provide extensive accommodations for various departments grouped in the buildings as follows: — (1) anatomy, comparative anatomy, histology, and embryology; (2) physiology, comparative physiology, biological chemistry, and theory and practice of physic; (3) pathology, bacteriology, neuropathology, and surgical pathology; (4) hygiene, pharmacology, comparative pathology, and surgical research.

The laboratory buildings are all constructed on one general plan, — two parallel wings united by an amphitheatre. Above each amphitheatre is a large departmental library. The rooms in the various wings have been designed on a unit system, which will greatly simplify any changes required by future growth or by uses other than those for which the rooms were originally designed. These buildings provide an equipment for teaching and research in various branches of medical science which as a whole is probably unequalled.

For the construction and endowment of these new buildings the School is indebted to the generosity of Mrs. Collis P. Huntington, Messrs. J. Pierpont Morgan, John D. Rockefeller, David Sears, and a number of other benefactors.

ADMINISTRATIVE BOARD.

HENRY A. CHRISTIAN, M.D., Dean, and *Hersey Professor of the Theory and Practice of Physic.*
CHARLES M. GREEN, M.D., *Professor of Obstetrics.*
FRANCIS B. HARRINGTON, M.D., *Lecturer on Surgery.*
GEORGE G. SEARS, M.D., *Assistant Professor of Clinical Medicine.*
FRANK B. MALLORY, M.D., *Associate Professor of Pathology.*
JOHN L. MORSE, M.D., *Assistant Professor of Pediatrics.*
WALTER B. CANNON, M.D., *Professor of Physiology.*
JOHN WARREN, M.D., *Assistant Professor of Anatomy.*
ELMER E. SOUTHARD, M.D., *Assistant Professor of Neuropathology.*

Office Hours of the Dean, Fridays, 4 to 5 p.m.; of the Secretary, Tuesdays and Thursdays, 12 m. to 1 p.m.

STANDING COMMITTEES.

Advertising and Catalogue. — Dr. Cannon (*Chairman*), and Drs. Mallory, Morse, Christian, Southard, and C. Frothingham, Jr. (ex-officio).

Fellowships. — Dr. Mallory (*Chairman*), and Drs. Green, Harrington, Sears, and Warren.

Scholarships and Students' Aid. — Dr. Christian, (*Chairman*), and Drs. Sears, Cannon, and C. Frothingham, Jr. (ex-officio).

INSTRUCTORS, LECTURERS, AND ASSISTANTS.*

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* Arranged on the basis of collegiate seniority.
† The address is Boston, unless otherwise stated.

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EDMUND W. CLAP, M.D., *Assistant in Ophthalmology*, 222 Marlborough St.
JOSHUA C. HUBBARD, M.D., *Assistant in Surgery*, 84 Bay State Road.
DANIEL F. JONES, M.D., *Assistant in Surgery*, 114 Marlborough St.

HARRIS P. MOSHER, M.D., *Instructor in Laryngology*, and *Assistant in Anatomy* and *in Otology*, 828 Beacon St.
HENRY J. PERRY, M.D., *Assistant in Bacteriology*, 636 Beacon St.
WILLIAM H. SMITH, M.D., *Assistant in Clinical Medicine*, 377 Beacon St.
ARTHUR M. WORTHINGTON, M.D., *Assistant in Bacteriology*, 26 Court St., Dedham.
ERNEST B. YOUNG, M.D., *Instructor in Gynaecology*, 434 Marlborough St.
CHARLES S. BUTLER, M.D., *Assistant in Anatomy*, 257 Newbury St.
FRED M. SPALDING, M.D., *Assistant in Ophthalmology*, 28 Newbury St.
HOWARD T. SWAIN, M.D., *Instructor in Obstetrics*, 68 Marlborough St.
FREDERICK S. BURNS, M.D., *Assistant in Dermatology*, 224 Marlborough St.
LE ROI G. CRANDON, M.D., *Assistant in Surgery*, 366 Commonwealth Ave.
EUGENE E. EVERETT, M.D., *Assistant in Bacteriology*, 427 Marlborough St.
WALTER C. HOWE, M.D., *Assistant in Surgery*, 303 Beacon St.
MAYNARD LADD, M.D., *Instructor in Pediatrics*, 270 Clarendon St.
GEORGE B. MAGRATH, M.D., *Instructor in Legal Medicine*, and *Assistant in Hygiene*, 274 Boylston St.
JOSEPH H. PRATT, M.D., *Assistant in the Theory and Practice of Physic*, 143 Newbury St.
DAVID H. WALKER, M.D., *Assistant in Otology*, 14 Monmouth Court, Brookline.
LEO V. FRIEDMAN, M.D., *Assistant in Obstetrics and Gynaecology*, 416 Marlborough St.
CHANNING C. SIMMONS, M.D., *Assistant in Surgery*, 66 Beacon St.
JAMES R. TORBERT, M.D., *Assistant in Obstetrics*, 252 Marlborough St.
FREDERICK H. VERHOEFF, M.D., *Instructor in Ophthalmic Pathology*, 95 Mountfort St.
GEORGE A. WATERMAN, M.D., *Assistant in Neurology*, 395 Marlborough St.
CHARLES H. DUNN, M.D., *Clinical Instructor in Pediatrics*, 220 Marlborough St.
EDWIN A. LOCKE, M.D., *Assistant in Clinical Medicine*, 311 Beacon St.
LUTHER D. SHEPARD, JR., M.D., D.M.D., *Instructor in Histology*, 330 Dartmouth St.

EDWARD N. TOBEY, M.D., *Assistant in Bacteriology*, Harvard Medical School.

ERNEST L. WALKER, S.D., *Assistant in Medical Zoölogy*, Harvard Medical School.

HERMAN M. ADLER, M.D., *Assistant in the Theory and Practice of Physic*, Harvard Medical School.

FREDERICK P. GAY, M.D., *Assistant in Pathology*, Harvard Medical School.

FREDERICK T. LORD, M.D., *Assistant in Clinical Medicine*, 305 Beacon St.

ERNEST G. MARTIN, Ph.D., *Instructor in Physiology*, Harvard Medical School.

NATHANIEL R. MASON, M.D., *Assistant in Obstetrics and Gynaecology*, 483 Beacon St.

DAVID D. SCANNELL, M.D., *Assistant in Surgery*, 366 Commonwealth Ave.

ERNEST E. TYZZER, M.D., *Assistant in Pathology*, Harvard Medical School.

HENRY I. BOWDITCH, M.D., *Assistant in Pediatrics*, 506 Beacon St.

ROBERT L. DeNORMANDIE, M.D., *Assistant in Obstetrics*, 357 Marlborough St.

THOMAS F. LEEN, M.D., *Assistant in the Theory and Practice of Physic*, 527 Beacon St.

FRANCIS W. PALFREY, M.D., *Alumni Assistant in the Theory and Practice of Physic*, 88 Beacon St.

ZABDIEL B. ADAMS, M.D., *Assistant in Anatomy*, 416 Marlborough St.

WILLIAM B. ROBBINS, M.D., *Assistant in the Theory and Practice of Physic*, 384 Commonwealth Ave.

JAMES D. BARNEY, M.D., *Assistant in Anatomy*, 384 Commonwealth Ave.

MARSHAL FABYAN, M.D., *Assistant in Comparative Pathology*, Brookline.

JOHN B. HARTWELL, M.D., *Assistant in Anatomy*, 29 Commonwealth Ave.

WILLIAM P. LUCAS, M.D., *Assistant in Pediatrics*, 527 Beacon St.

ALEXANDER R. ROBERTSON, M.D., C.M., *Assistant in Pathology*, Harvard Medical School.

EDWARD B. MEIGS, M.D., *Instructor in Physiology*, Harvard Medical School.

GEORGE H. WRIGHT, D.M.D., *Assistant in Laryngology*, 149 Newbury St.

RICHARD DEXTER, M.D., *Assistant in Clinical Medicine*, 121 Beacon St.

CHARLES L. OVERLANDER, M.D., *Assistant in the Theory and Practice of Physic*, 127 Newbury St.

LAWRENCE J. RHEA, M.D., *Assistant in Pathology*, Harvard Medical School.

ERNEST T. F. RICHARDS, M.D., C.M., *Assistant in Pathology and in Neuropathology*, Harvard Medical School.

GEORGE C. SHATTUCK, M.D., *Alumni Assistant in Clinical Medicine*, 227 Beacon St.

WALTER R. BLOOR, A.M., *Assistant in Biological Chemistry*, Harvard Medical School.

ROBERT M. GREEN, M.D., *Assistant in Anatomy*, 78 Marlborough St.

ROGER I. LEE, M.D., *Assistant in the Theory and Practice of Physic*, 259 Beacon St.

EDWARD H. RISLEY, M.D., *Alumni Assistant in Surgery*, Massachusetts General Hospital.

PHILIP H. SYLVESTER, M.D., *Assistant in Pediatrics*, Newton Centre.

ARIAL W. GEORGE, M.D., *Assistant in Anatomy*, 234 Marlborough St.

EDWARD J. CURRAN, M.D., *Assistant in Anatomy*, Harvard Medical School.

ROY G. HOSKINS, A.M., *Teaching Fellow in Physiology*, Harvard Medical School.

JOHN H. WILSON, PH.D., *Research Assistant in Pathology*, Harvard Medical School.

DAVID L. WILLIAMS, M.D., *Assistant in Materia Medica*, 29 Gloucester St.

AUSTIN TEACHING FELLOWS.

CLEAVELAND FLOYD, M.D., *in Bacteriology*, Harvard Medical School.

FRANK L. RICHARDSON, M.D., *in Surgery*, 1074 Boylston St.

EUGENE L. PORTER, A.M., *in Physiology*, Harvard Medical School.

RICHARD E. SCAMMON, A.M., *in Histology and Embryology*, Harvard Medical School.

WARREN MACPHERSON, A.M., *in Comparative Pathology*, Weld 21, Cambridge.

FRANKLIN P. JOHNSON, A.B., *in Histology and Embryology*, Harvard Medical School.

THE HARVARD MEDICAL SCHOOL.

ADMISSION OF STUDENTS.

Candidates for admission to this School must present a degree in Arts, Literature, Philosophy, or Science from a recognized college or scientific school, with the exception of such persons, of suitable age and attainments, as may be admitted by a special vote of the Administrative Board in each case.* Students admitted by special vote of the Administrative Board shall be classed as special students, and therefore not candidates for the degree of M.D.; but if such special students obtain grade *C* in all their work during their first year of residence, they may be placed in regular standing as candidates for the degree, by vote of the Administrative Board.

All candidates, whether presenting a degree or not, are required to satisfy the Faculty that they have had a course in Theoretical and Descriptive (Inorganic) Chemistry, Qualitative Analysis, and elementary Organic Chemistry sufficient to fit them to pursue the courses in Chemistry given at the Medical School; or, failing in this, to pass examinations in these subjects. Students who are unable to fulfil either of these requirements may enter conditioned in Chemistry; but they must make up the condition before the beginning of the second half-year. The required training in Chemistry is afforded by courses in Chemistry 1, 2, and 3, in Harvard College.

The admission examination in Chemistry (at which time also the note-books in Qualitative Analysis must be handed in) is held at the Medical School, Longwood Avenue, Boston, at 10 A.M., on the Thursday following the last Wednesday in June, and on the last Wednesday in September. The examination is conducted in writing.

In addition to the required courses in Chemistry, the Faculty recommends that students intending to study medicine pursue courses in Zoölogy, Morphology of Animals, Comparative Anatomy of Vertebrates, and Microscopical Anatomy (Zoölogy 1, 2, 3, and 4); in Morphology of Plants (Botany 2); in Experimental Physics (Course *C*); and in Psychology (Philosophy *E*).

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* The exception above referred to applies only to men who, without such a degree, have acquired an equivalent education and training sufficient to enable them to profit by the instruction offered in the School.

A graduate of another medical school of recognized standing may obtain the degree of M.D. at this University, after a year's study in the undergraduate course, by passing all examinations required in the full undergraduate course and by fulfilling all requirements for admission. These examinations may be taken only at the times set for the regular examinations in September, February (mid-year examinations), and June. The next year will begin September 30, 1908.

DIVISION OF STUDENTS.

Students are divided into four classes according to their time of study and proficiency. No student may advance with his class, or be admitted to advanced standing, until he has passed the required examinations in the studies of the previous year, or a majority of them; nor may he become a member of the third class, until he has passed all the examinations of the first, and in addition a majority of those of the second year; nor of the fourth class, until he has passed all the examinations of the first and second years, in addition to a majority of those of the third year.

No student will be permitted to continue his membership in the School, if at the beginning of his second year he has passed none of the first-year examinations.

In order that the time of study shall count as a full year, students of all classes must register at the Dean's office on Thursday, the first day of the academic year.

*Students are required to devote themselves exclusively to the work of the School.**

Students who began their professional studies in other recognized Medical Schools may be admitted to advanced standing. All persons who apply for admission to the advanced classes must furnish a satisfactory certificate of time spent in medical studies, must pass examinations in the branches already pursued by the class to which they seek admission, and fulfil all other requirements for admission; but applicants for advanced standing who have fulfilled in another recognized school the requirements of a department of this School may be excused from repeating such requirements, provided the instruction which they have received is considered satisfactory by the Committee on Admission in conference with the head of the department concerned.

Any student may obtain a certificate of his period of connection with the School.

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* The intent of this rule is that students may not engage in hospital work during term time, except in so far as required by the School curriculum.

DIVISION OF STUDIES

First Year		Second Year		Third Year		Fourth Year Electives	
*Anatomy	3	*Bacteriology	1	*Materia Medica and Therapeutics	2	Anatomy 1 and 2	Surgery
*Histology and Embryology	3	*Pathology	3	*Theory and Practice	3	Comp. Anatomy 1 and 2	Genito-Urinary Surgery
Physiology	3	Hygiene	1	Clinical Medicine	3	Physiology 1, 2, 3 and 4	Orthopedics
Biochemistry	3	*Materia Medica and Therapeutics*		Pediatrics	2	Comparative Physiology	Surgical Pathology
		Theory and Practice		*Surgery (written 2 hrs., practical 1 hr.)	3	Biochemistry	Clinical Surgical Pathology
		Clinical Medicine		Clinical Surgery (written 1 hr., practical 1 hr.)	2	Bacteriology	Obstetrics
		Surgery		Obstetrics	3	Pathology 1, 2, 3, 4, 5, 6 and 7	Gynaecology
				Gynaecology	1	Neuropathology	Dermatology and Syphilis
				Dermatology	1	Comparative Pathology	Neurology and Psychiatry
				Syphilis	1	Hygiene	Ophthalmology
				Neurology	1	Theory and Practice 1, 2, 3, 4, 5, 6, and 7	Otology
				Psychiatry	1	Clinical Medicine	Laryngology
				*Ophthalmology	1	Pediatrics	
				Otology	1		
				Laryngology	1		
				Genito-Urinary Surgery			
				Legal Medicine			
				Municipal Sanitation			

NOTE. — Subjects in which an examination is required are in roman letters. The number following the name of the examination indicates the length in hours of the examination. In the fourth year, electives must be chosen aggregating 1000 hours; each elective or half-course has a value of 125 hours.

* Examination in February.

METHODS OF INSTRUCTION.

During the first three years the following methods of instruction are adopted in the several departments: —

NOTE. — The figures at the right of the page indicate as accurately as can be ascertained the number of hours of instruction which each student receives in the different courses.

ABBREVIATIONS USED IN THE FOLLOWING PAGES, AND IN THE TABULAR VIEWS.

B.C.H. = Boston City Hospital.
B.D. = Boston Dispensary.
B.I.H. = Boston Insane Hospital (Pierce and Austin Farms).
B.L.H. = Boston Lying-in Hospital.
Ch.H. = Children's Hospital.
E. and E.I. = Massachusetts Charitable Eye and Ear Infirmary.
F.H. for W. = Free Hospital for Women.
H.M.S. = Harvard Medical School.
I.H. = Infants' Hospital.
L.I.H. = Long Island Hospital.
McL.H. = McLean Hospital.
M.G.H. = Massachusetts General Hospital.
S.D.B.C.H. = South Department, Boston City Hospital.
S.H. = Samaritan Hospital.
S.O.P.D. = Surgical Out-Patient Department.

Anatomy.

Thomas Dwight, M.D., LL.D., *Parkman Professor of Anatomy.*
John Warren, M.D., *Assistant Professor of Anatomy.*
David Cheever, M.D., *Demonstrator of Anatomy.*
Elisha Flagg, M.D., *Assistant in Anatomy.*
Harris P. Mosher, M.D., *Assistant in Anatomy.*
Charles S. Butler, M.D., *Assistant in Anatomy.*
Zabdiel B. Adams, M.D., *Assistant in Anatomy.*
James D. Barney, M.D., *Assistant in Anatomy.*
John B. Hartwell, M.D., *Assistant in Anatomy.*
Robert M. Green, M.D., *Assistant in Anatomy.*
Arial W. George, M.D., *Assistant in Anatomy.*
Edward J. Curran, M.D., *Assistant in Anatomy.*

First Year. — The course in anatomy occupies the mornings in October, November, and December, and both mornings and afternoons in January. The instruction consists of lectures; various practical exercises, including abundant dissection under the direction of the Demonstrator; recitations; demonstrations; and study of frozen sections and of the living model.

The means and methods of illustrating the anatomical lectures probably are unrivalled in this country. The system of demonstrations to small sections has been greatly extended.

Text-books.—Piersol. Cunningham. Gray. Quain. Morris. Gerrish. Woolsey, Applied Anatomy.

Collateral Reading.—Dwight, Frozen Sections of a Child Dwight, Clinical Atlas of Variations of Hands and Feet. Cunningham, Manual of Practical Anatomy. Maealister, Human Anatomy. Testut, Anatomie Humaine. Poirier, Traité d'Anatomie Humaine. Tillaux, Anatomie topographique. Humphry, Human Skeleton.

First Year.

October.

Lectures. Professor Dwight. *Seven hours weekly.*	28
Study of bones and joints. *Three hours daily for first two weeks.*	33
Demonstrations. Dr. Cheever. *Four times a week to sections of the class for last two weeks.*	12
Practical anatomy with recitations. *Three hours a day, five times a week for last two weeks.*	30

November and December.

Lectures. Professor Dwight. *Three hours a week.*	24
Demonstrations. Drs. Warren and Cheever. *Four times a week to sections of the class.*	24
Practical anatomy with recitations. *Three hours a day, five times a week.*	60

January.

Lectures and demonstrations. Dr. Warren. *Daily.*	24
Demonstrations. Dr. Cheever. *Four times a week to sections of the class.*	24
Practical anatomy with recitations. *Three hours a day, five times a week.*	60
Demonstrations and study of the brain and organs of sense. *Three hours a day, five times a week.*	60

Comparative Anatomy.

Charles S. Minot, S.D., LL.D., D.Sc., *James Stillman Professor of Comparative Anatomy.*

Frederic T. Lewis, M.D., *Assistant Professor of Embryology.*

John L. Bremer, M.D., *Demonstrator of Histology.*

Leonard W. Williams, Ph.D., *Instructor in Comparative Anatomy.*

Luther D. Shepard, Jr., M.D., D.M.D., *Instructor in Histology.*

Richard E. Scammon, A.M., *Austin Teaching Fellow in Histology and Embryology.*

Franklin P. Johnson, A.B., *Austin Teaching Fellow in Histology and Embryology.*

LABORATORY.

The laboratory comprises the whole southeast wing of the new Morgan Anatomical Building. There are fifteen unit rooms for class work, each of which measures twenty-three by thirty feet, is well lighted, and will be thoroughly equipped as needed. Each unit room is designed for twenty-four elementary or twelve advanced students. There are separate rooms for the various officers, store rooms, collection room, animal room, etc. There is a large library in which complete files of the most important anatomical and morphological journals will be placed, together with many standard works of reference, and in an adjoining room a collection of about eight thousand pamphlets. A card catalogue and a classified bibliography are maintained which give ready access to the literature.

The laboratory offers exceptional facilities for all kinds of work in comparative anatomy in the broadest sense, including histology and embryology. The former Department of Histology and Embryology has been merged with the new Department of Comparative Anatomy.

The Embryological Collection is a unique feature of the laboratory. It comprises nearly fifteen hundred series of sections of carefully selected typical vertebrate embryos, and affords therefore opportunities for research in comparative embryology such as cannot be found elsewhere. The collection also includes fifty-one series of sections from human embryos, several of which are of exceptional value, among them being one of the very youngest stages of man yet known.

Text-books. — Stöhr's Histology, edited by F. T. Lewis. Minot, Laboratory Text-book of Embryology.

Collateral Reading. — Quain, Anatomy. Lee, Microtomist's Vademecum. Kölliker, Gewebelehre. Minot, Human Embryology. Van Gehuchten, Système nerveux.

REGULAR COURSES.

First Year. — Histology and Embryology are taught by lectures and laboratory work; twenty-two hours a week are required during October, November, and December. Every student is recommended to purchase a microscope, but microscopes may be rented, by those who do not possess them, for three dollars a term or four dollars for the whole first ear work. Each student is charged a laboratory fee of three dollars.

First Year.

October, November, December.

Lectures. Professor Minot, Dr. Bremer, Dr. Lewis. *One half-hour five times a week.*	30
Laboratory work. *Three and one-half hours five times a week.*	210
Quiz. *Two hours once a week.*	24

GRADUATE COURSES.

1. *Elementary Human Histology and Embryology.* Five afternoons a week (from 2 until 6), first half-year.

This course is intended to teach the normal histology of the human body. It deals with the cells, tissues, and organs from the developmental standpoint. After a brief consideration of the cell, the fertilization and segmentation of the ovum are studied, as an introduction to the study of the chick embryo of 36 hours and the pig embryo of 21 days. In this work special stress is laid on the origin and growth of the different organs, and from this time the various human tissues and organs are taken up separately, each studied from the point of view of organogeny. With the work on the uterus, the human placenta and foetal membranes are given special emphasis. The last part of the course is devoted to the study of the development and histology of the brain and sense organs.

This course for the first three months is identical with that required of first-year medical students.

2. *Anatomy of Higher Vertebrates.* Five afternoons a week (from 2 until 6), second half-year.

The object of this course is to give the student an exact knowledge of the anatomy of a few mammals and birds as a foundation for research in Anatomy and Embryology, or for experimental work in Physiology or Pathology.

The structure of a small number of mammals, including a representative carnivore, rodent and ungulate, and one or two birds will be studied.

There will be lectures upon the general principles of comparative anatomy.

Each student will be required to make thorough dissections of each animal and to prepare sections of the most important organs.

College courses in the morphology of animals, especially of vertebrates, are desirable as a preliminary to this work. Students who have not previously studied the anatomy of lower vertebrates will also be required to dissect some of these forms.

3. *Embryology of Vertebrates.* Full course (second half-year).

An elementary knowledge of embryology, such as may be obtained from Course 1, is required. Course 5, or its equivalent, offered by the Department of Zoölogy of Harvard College, is recommended.

In this course sixteen hours per week, at times chosen by the student, are to be spent in laboratory work. There are no lectures, but at appointed times the students meet for directions and for a thorough discussion of the specimens studied. Each student will be required to make a thorough detailed study of at least three typical stages of embryos of the higher vertebrates. The methods for making graphic and wax reconstructions will be taught, together with the ways of preparing drawings for publication. Reconstructions by both methods, and a certain number of drawings suitable for reproduction will be required.

The object of the course is, therefore, to give the student a knowledge of embryology by learning minutely the entire anatomy of three embryos of diverse stages of development, and to teach the methods of embryological research.

In place of a text-book the original publications will be used. At the discretion of the instructor students may have access to the very valuable and extensive Embryological Collection described above, and to the collection of models, many of which were made in this laboratory.

4. *Advanced Histology.* Five mornings a week (from 9 until 1), second half-year.

This course is intended to supplement the course in the Anatomy of Higher Vertebrates. The genesis as well as the adult histology of the various parts and organs is studied, and special stress is laid on their differences, developmental and structural, in the animals chiefly used in experimental medicine and animal economics. Students will also be required to master the principal technical methods used in Histology.

All of the courses offered in this department to regular medical students as fourth-year electives are open to graduate students who are candidates for the higher degrees.

INVESTIGATION.

Special accommodations are furnished in the laboratory for students who wish to pursue special or advanced work. Special facilities are offered to original investigators, who will receive such personal aid as may be necessary or advantageous.

A special course in vertebrate embryology is given during the second term; this has been accepted by the Faculty of Arts and Sciences, and is open to students of the academic departments.

Physiology.

Walter B. Cannon, M.D., *George Higginson Professor of Physiology.*
Ernest G. Martin, Ph.D., *Instructor in Physiology.*
Edward B. Meigs, M.D., *Instructor in Physiology.*
Roy G. Hoskins, A.M., *Teaching Fellow in Physiology.*

Eugene L. Porter, A.M., *Austin Teaching Fellow in Physiology.*

First Year. — The instruction in Physiology is based, as far as possible, on observations made by the students in laboratory experiments. The experiments are selected to impress the student with the methods and the most important facts in the various divisions of the subject. Physiological processes not readily observed in the laboratory the student learns with an insight derived from practical experience in experimentation. The arrangement of the experiments is in general such that the student first learns of what activity an organ or tissue is capable, next how certain factors condition or modify that activity, and finally what may be the effect of the activity. The experiments have also been so arranged as to place those with more general bearing first, and those with special interest later. Thus reference to previously acquired information becomes more and more possible as the course proceeds.

The amount of time devoted to laboratory exercises is approximately two hundred hours. Each student is required to preserve a record of his experiments and observations in a laboratory note-book. These records are examined and criticised weekly.

Observations of his own experiments by the student are supplemented by more than thirty special demonstrations. These exercises, some of which are performed by students under the direction of an assistant, are closely correlated with the other objective instruction. The function of the depressor nerve, motor localization in the cerebral cortex, the action of secretin and of enterokinase, and the effects of lymphagogues are examples of subjects which are demonstrated.

The facts observed in the laboratory and in the demonstrations are discussed in lectures and theses. The lectures, about ninety in number, are informal discussions permitting questions by the students or by the instructor. In these discussions the laboratory experiments are correlated with one another and with the body of physiological knowledge. Supplementing the lectures are the theses. A thesis based upon reading of the records of original investigations is required of each student. The Bowditch Library of Physiology and Biological Chemistry, containing about four thousand volumes and about twelve thousand reprints, is open to students for reference and reading. There is insufficient time for presenting before the class all the theses written each year. Certain theses of special importance in relation to the regular instruction, between forty-five and fifty in number, are chosen to be presented. In each case two students beside the reader of the thesis are selected to be prepared in some phase of the literature of the subject. These students, after the reading of the thesis, lead the discussion, which is continued by members of the class and the staff. Among the theses read publicly during the past academic year were: Theories of muscular contractility, Color-blindness, Heart-block, Haemolysis, Physiological economy of nutrition, Natural defenses of the organism.

In order that students shall review the work repeatedly as the course proceeds, and also that the instructors may judge the efficiency of the teaching, daily and weekly written tests are given. The daily tests, fifteen minutes in duration and consisting of two questions, serve to emphasize important points in any part of the work recently considered. Following are some of the questions: Does blood enter or leave the ventricle in the interval between the first and second heart sounds? Between the second and first sounds? What is referred pain? What are the relative limits of the various kinds of color-blindness in the normal eye?

The weekly tests, one hour in length, require a more general review of previous work than the daily tests. Usually five questions are asked; as examples the following are illustrative: What are the effects of stimulating the vasoconstrictor nerves of any particular organ? Cite morphological and physiological evidence for segmental arrangement of the nervous system. Discuss cortical localization.

If in the written tests many students show that certain points are not clearly understood, these points are briefly discussed again before the class. If a student reveals by his answers general failure to grasp the subject intelligently, he is personally conferred with regarding the character of his work. Such conferences are held after the first four weeks of the course, and usually result in a better understanding between the instructor and the student, and frequently in a marked improvement in the student's efforts.

Text-books. — No special text-book is required, but the following books are recommended for reading in connection with the course: Text-book of Physiology, edited by E. A. Schäfer. Howell, Text-book of Physiology. Tigerstedt, Text-book of Physiology. Hermann, Lehrbuch der Physiologie. Nagel, Handbuch der Physiologie.

First Year (Second half).

Laboratory experiments. Professor Cannon, Drs. Martin and Meigs, and Messrs. Hoskins and Porter. *Daily.*	200
Written tests (76). *Fifteen minutes daily, except Monday and Saturday.*	19
Written tests (15). *One hour Mondays.*	15
Lectures (90). Professor Cannon, and Drs. Martin and Meigs.	90
Special demonstrations (32). Professor Cannon, and Drs. Martin and Meigs.	16
Discussion of Theses (50).	38
Thesis. Written by each student from the original sources.	
Reading of investigations. The reading of investigations and the discussion of these at the appropriate conference	

INVESTIGATION.

Any student, properly qualified, who desires to engage in physiological research will be welcomed into the laboratory and will be offered every facility for research which the laboratory affords.

Comparative Physiology.

William T. Porter, M.D., LL.D., *Professor of Comparative Physiology.*

GRADUATE COURSES.

I. *Physiological Research.* Students qualified for research will pursue their investigations under the immediate direction of Professor W. T. Porter.

II. *Comparative Physiology of Muscle.* Professor Porter. Three hours weekly during February and March.

III. *Physiological Conference.* Professor Porter. Demonstrations with informal discussions of selected problems in physiology. Mondays, 5 to 6 p.m., throughout the year.

Biological Chemistry.

Otto Folin, Ph.D., *Associate Professor of Biological Chemistry.*
Lawrence J. Henderson, M.D., *Instructor in Biological Chemistry.*
Otis F. Black, A.M., *Assistant in Biological Chemistry.*
Walter R. Bloor, A.M., *Assistant in Biological Chemistry.*

First Year

Biochemistry 1. — The lectures in this course consist of a brief discussion of the theories of chemical constitution and a survey of those classes of chemical substances which are to be found in animals and plants, and of the general principles and more important facts of Chemical Physiology and Pathology.

The laboratory practice is designed to acquaint the student with some of the more important constituents of living matter and their chemical behavior, and with some of the routine methods of Biochemical investigation.

Conferences and discussions of selected topics supplement the main work of the course.

Chemistry 15, offered by the Division of Chemistry of the Faculty of Arts and Sciences, in some respects a parallel course, or its equivalent, together with a somewhat extended acquaintance with organic chemistry, may be accepted in place of a part of the work of this course, provided that the time be spent in more advanced work in Biological Chemistry.

First Year.

Biochemistry 1. — General Biological Chemistry. Lectures, Monday, Tuesday, Wednesday, Thursday, Friday, at 2; and laboratory, Monday, Tuesday, Wednesday, Thursday, Friday, 3–5.30, during the second half-year. Professor Folin and Dr. Henderson, and Messrs. Black and Bloor.

GRADUATE COURSES.

Biochemistry 2. — Metabolism. Lectures, five times a week during November and December. Professor Folin.

This course is designed to acquaint the student with the present knowledge and problems of the metabolism of man and lower animals, both normal and pathological.

Biochemistry 3. — The Technique of Metabolism Investigations. Laboratory practice. Professor Folin and assistants.

This course is designed to give the student a practical knowledge of the quantitative methods useful in conducting metabolism researches.

Biochemistry 4. — The Applications of Physical Chemistry to Biology. Lectures, five times a week during January. Dr. Henderson.

This course is designed to acquaint the student with the recent applications of physico-chemical theories and methods to Biology and medical science. The subjects to be discussed will include the theory of solution, the concentration law, catalysis, ionization, the theory of colloids, and the physico-chemical organization of the cell. The lectures will be supplemented by extended reading, and opportunity for practice in physico-chemical methods will be offered. In preparation for this course an elementary acquaintance with Physical Chemistry, such as may be obtained from Chemistry 8, offered by the Division of Chemistry of the Faculty of Arts and Sciences, is desirable.

Biochemistry 20. — Research in Biological Chemistry. Half-courses, forenoons, throughout the year; all day or afternoons, first half-year.

Bacteriology.

HAROLD C. ERNST, M.D., *Professor of Bacteriology.*
LANGDON FROTHINGHAM, M.D.V., *Instructor in Bacteriology.*
CALVIN G. PAGE, M.D., *Assistant in Bacteriology.*
HENRY J. PERRY, M.D., *Assistant in Bacteriology.*
ARTHUR M. WORTHINGTON, M.D., *Assistant in Bacteriology.*
EUGENE E. EVERETT, M.D., *Assistant in Bacteriology.*
EDWARD N. TOBEY, M.D., *Assistant in Bacteriology.*

CLEAVELAND FLOYD, M.D., *Austin Teaching Fellow in Bacteriology.*

Second Year. — Required bacteriology is taught by lectures and practical laboratory work. The lectures treat of the general subject and of methods of practical work. In the laboratory each student has an opportunity to become familiar with the simpler methods of manipulation and staining which are of especial clinical value, and with the more prominent of the pathogenic bacteria.

Text-books. — Muir and Ritchie. Abbott. Park.

Collateral Reading. — Sternberg. Heim. Migula. Kolle and Wassermann.

SECOND YEAR.

Lectures. Professor ERNST. *Daily, except Saturdays, during October and November.*	40
Laboratory work. Professor ERNST, and Drs. FROTHINGHAM, PAGE, PERRY, WORTHINGTON, and EVERETT. *Two to three hours daily during October and November.*	120

Pathology.

WILLIAM T. COUNCILMAN, M.D., LL.D., *Shattuck Professor of Pathological Anatomy.*
FRANK B. MALLORY, M.D., *Associate Professor of Pathology.*
JAMES H. WRIGHT, M.D., S.D., *Assistant Professor of Pathology.*
ELMER E. SOUTHARD, M.D., *Assistant Professor of Neuropathology.*
FREDERICK H. VERHOEFF, M.D., *Instructor in Ophthalmic Pathology.*

Frederick P. Gay, M.D., *Assistant in Pathology.*
Ernest E. Tyzzer, M.D., *Assistant in Pathology.*
Lawrence J. Rhea, M.D., *Assistant in Pathology.*
Ernest T. F. Richards, M.D., C.M., *Assistant in Pathology and in Neuropathology.*
Alexander R. Robertson, M.D., C.M., *Assistant in Pathology.*
John H. Wilson, Ph.D., *Research Assistant in Pathology.*

Second Year. — The course in Pathology consists of laboratory work, demonstrations, conferences, and lectures. During the forenoons of October and November a course in general pathology is given. The basis of the work is formed by a laboratory course in which microscopic work is combined with demonstrations and examinations of gross specimens. A lecture with stereopticon demonstrations is given daily at the end of the exercises in order to explain more fully the lesions studied in the laboratory.

During the forenoons of December and of the first and second weeks of January the work consists chiefly of the study and diagnosis of tissues from post-mortem examinations. So far as possible all the organs from a cadaver are demonstrated together, and the relation of the lesions explained. The organs are examined by the naked eye, and microscopically in frozen sections. Tumors and other pathological products are examined in the same way. Lectures and laboratory talks are given daily.

In the forenoons of the second and third weeks of December, Professor T. Smith gives a course of lectures and laboratory exercises on animal parasites, particularly the protozoa and the infections produced by them.

During the afternoons of December and January two courses are given in the special pathology of neurology and surgery; the courses constitute a valuable introduction to the clinical work required in these subjects in the third year.

These courses are: —

(*a*) Fifteen demonstrations and laboratory exercises on the pathology of the nervous system. (See Neurology.)

(*b*) Twenty laboratory exercises in surgical pathology. (See Surgery.)

Text-books. — Ziegler, General and Special Pathology. Stengel, A Text-book of Pathology. Mallory and Wright, Pathological Technique.

Collateral Reading. — Thoma, Pathologische Anatomie. Orth, Pathologische Anatomie; Diagnostik. Ribbert, Pathologische Histologie, Lehrbuch der Allgemeinen Pathologie. Lubarsch and Ostertag, Ergebnisse der Pathologie und Anatomie. Neveu-Lemaire, Parasitologie animale. Braun, The Animal Parasites of Man.

SECOND YEAR.

Lectures. Professors COUNCILMAN and MALLORY. *Daily for fourteen weeks, October, November, December (first week only), and January.* 84

Lectures. Professor T. SMITH. *One hour daily, second and third weeks of December.* 12

Laboratory work. Professor COUNCILMAN, and Drs. GAY, RHEA, and ROBERTSON. *Three hours daily during the forenoons of October, November, December (first week only), and January.* 252

Demonstrations and laboratory work. Professor T. SMITH. *Two hours daily, second and third weeks of December.* 24

Neuropathology. Asst. Professor SOUTHARD. *Afternoons in December.* 45

Surgical pathology. Asst. Professor NICHOLS. *Afternoons in January.* 60

Comparative Pathology.

THEOBALD SMITH, M.D., LL.D., *George Fabyan Professor of Comparative Pathology.*

ERNEST L. WALKER, S.D., *Assistant in Medical Zoölogy.*

MARSHAL FABYAN, M.D., *Assistant in Comparative Pathology.*

WARREN MACPHERSON, A.M., *Austin Teaching Fellow in Comparative Pathology.*

Second Year. — A short course on the pathogenic protozoa and higher animal parasites is given in January as a part of the course in Pathology (see above).

Fourth Year. — The laboratory is open throughout the year to advanced and graduate students prepared to carry on original work in problems relating to the spontaneous and induced diseases of animal life, their causes and the relation of these causes to human diseases. Special facilities for the study of bacterial toxines, antitoxins and vaccines, and animal parasites are offered to the qualified student.

SECOND YEAR.

Lectures. Professor T. SMITH. (H.M.S.) *One hour daily, second and third weeks of December.* 12

Demonstrations and laboratory work. Professor T. SMITH, and Drs. RHEA, ROBERTSON, and FABYAN. *Two hours daily, second and third weeks of December.* 24

Hygiene.

——— ———, M.D., *Professor of Hygiene.*

GEORGE B. MAGRATH, M.D., *Assistant in Hygiene.*

Second Year. — The instruction consists of lectures and demonstrations.

Text-book. — Harrington, Practical Hygiene.

Collateral Reading. — Notter, Hygiene. Manson, Tropical Diseases. Newsholme, Vital Statistics. Mason, Water Supply. Abbott, Hygiene of Transmissible Diseases.

SECOND YEAR.

Lectures and demonstrations. ——— ———. *Three times a week, second half-year.* 48

Materia Medica and Therapeutics.

FRANZ PFAFF, M.D., *Professor of Pharmacology and Therapeutics.*
MAURICE V. TYRODE, M.D., *Instructor in Pharmacology.*
DAVID L. WILLIAMS, M.D., *Assistant in Materia Medica.*

Second and Third Years. — Instruction is given by lectures and recitations, and by demonstrations of the physiological action of drugs. The lectures are supplemented by an optional course in practical pharmacy, in which the compounding of prescriptions is illustrated. In addition to the lectures on therapeutics, the practical relation of remedies to diseased conditions is dwelt on in the exercises in the departments of Theory and Practice, and of Clinical Medicine.

A special laboratory has been equipped for original research in Experimental Pharmacology and Therapeutics; here a voluntary course, open to a limited number of duly qualified undergraduates, affords opportunity for practical training and instruction in the methods and use of the special apparatus employed in determining the toxic and physiological actions of drugs, and their practical value as remedies.

Text-book. — A. R. Cushny, Pharmacology and Therapeutics.

Collateral Reading. — Schmiedeberg, Arzneimittellehre. Binz, Vorlesungen ueber Pharmacologie. H. C. Wood, Therapeutics. Brunton, Pharmacology, Materia Medica, and Therapeutics.

SECOND YEAR.

Pharmacology lectures. Professor PFAFF. *Twice a week, February to May inclusive.* 32

Materia Medica lectures. Dr. TYRODE. *Once a week, February to May inclusive.* 16

Voluntary laboratory work. Dr. TYRODE. *Two hours once a week during April and May.*

THIRD YEAR.

Lectures on Therapeutics. Professor PFAFF. *Once a week, first half-year.* 16

The Theory and Practice of Physic.

Henry A. Christian, M.D., *Hersey Professor of the Theory and Practice of Physic.*

Elliott P. Joslin, M.D., *Instructor in the Theory and Practice of Physic.*

Henry F. Hewes, M.D., *Instructor in the Theory and Practice of Physic.*

Arthur K. Stone, M.D., *Assistant in the Theory and Practice of Physic.*

George S. C. Badger, M.D., *Assistant in the Theory and Practice of Physic.*

Joseph H. Pratt, M.D., *Assistant in the Theory and Practice of Physic.*

Herman M. Adler, M.D., *Assistant in the Theory and Practice of Physic.*

Charles L. Overlander, M.D., *Assistant in the Theory and Practice of Physic.*

Thomas F. Leen, M.D., *Assistant in the Theory and Practice of Physic.*

Francis W. Palfrey, M.D., *Alumni Assistant in the Theory and Practice of Physic.*

William B. Robbins, M.D., *Assistant in the Theory and Practice of Physic.*

Channing Frothingham, Jr., M.D., *Assistant in the Theory and Practice of Physic.*

Roger I. Lee, M.D., *Assistant in the Theory and Practice of Physic.*

The instruction given by the Department of the Theory and Practice of Physic consists of both clinical and laboratory work. The clinical work is given by means of lectures, clinical lectures and clinical exercises at the Massachusetts General Hospital, the Boston City Hospital, the Carney Hospital, or the House of the Good Samaritan. The laboratory work is given at the Harvard Medical School in the laboratory of the Department. The laboratories are equipped for teaching routine clinical laboratory methods to the entire class, as well as for carrying on clinical or experimental medical research. Both kinds of work are offered to both undergraduate and graduate students.

Second and Third Years. — *Lectures.* Lectures on selected topics are given at the Medical School.

Clinical Lectures. — Clinical lectures in which the students are called upon to take an active part are given at the Massachusetts General Hospital.

Clinical Exercises. — Small sections of the class will be drilled in the larger hospitals and clinics in the taking of histories and in the examination of urine, blood, sputum, and gastric contents.

Laboratory. — Students will be instructed and exercised in the chemical, microscopical, and bacteriological methods used in the practice of medicine. It is expected that each student by frequent opportunity will attain the necessary proficiency to enable him to utilize these methods in the diagnosis and prognosis of disease.

Fourth Year. — Courses are offered in both clinical and laboratory work, and are described on pages 58 and 59 of this catalogue.

Graduate Students. — Graduate students are admitted to Courses 3, 4, 5, 6, and 7 as described on pages 58 and 59 of this catalogue, and to Courses 1 and 2 provided that any places in these courses remain unfilled by regular fourth-year students.

Text-books. — Osler, Practice of Medicine. Von Leube, Diagnose der Inneren Krankheiten. Emerson, Clinical Diagnosis. Sahli, Diagnostic Methods.

Collateral Reading. — Nothnagel, Specielle Pathologie und Therapie. Allbutt, System of Medicine. Kolle und Weintraud, Die Deutsche Klinik. Osler, Modern Medicine. Krehl, Principles of Clinical Pathology. Schwalbe, Therapeutische Technik. Gould, Medical Dictionary.

Second Year.

Lectures on selected topics. Professor Christian. (H.M.S.) *Twice a week, second half-year.* 32

Clinical lectures. Dr. Badger. (M.G.H.) *Once a week, second half-year.* 16

Exercises in sections. Drs. Joslin (B.C.H.), Badger and Palfrey (M.G.H.), Stone and Lee (M.G.H. and S.H.). *Twice a week, second half-year, for each student.* 32

Laboratory exercises. Dr. Hewes, assisted by Drs. Adler, Overlander, and Robbins. *Five times a week, second half-year.* 80

Third Year.

Lectures on selected topics. Professor Christian. (H.M.S.) *Twice a week, first half-year.* 32

Clinical lectures. Dr. Pratt. (M.G.H.) *Once a week, first half-year; once a week, second half-year.* 32

Clinical lectures. Dr. Hewes. (M.G.H.) *Once a week, first half-year.* 16

Clinical lectures. Drs. Stone, Lord, or Lee. (M.G.H.) *Once a week, first half-year.* 16

Exercises in sections. Drs. Stone and Lee. (M.G.H. and S.H.) *First half-year.* 8

Clinical Medicine.

Frederick C. Shattuck, M.D., LL.D., *Jackson Professor of Clinical Medicine.*
George G. Sears, M.D., *Assistant Professor of Clinical Medicine.*
Richard C. Cabot, M.D., *Assistant Professor of Clinical Medicine.*
Herman F. Vickery, M.D., *Instructor in Clinical Medicine.*
Henry Jackson, M.D., *Instructor in Clinical Medicine.*
John W. Bartol, M.D., *Assistant in Clinical Medicine.*
James M. Jackson, M.D., *Assistant in Clinical Medicine.*
Franklin W. White, M.D., *Assistant in Clinical Medicine.*
William H. Robey, Jr., M.D., *Assistant in Clinical Medicine.*
William H. Smith, M.D., *Assistant in Clinical Medicine.*
Edwin A. Locke, M.D., *Assistant in Clinical Medicine.*
Frederick T. Lord, M.D., *Assistant in Clinical Medicine.*
Richard Dexter, M.D., *Assistant in Clinical Medicine.*
George C. Shattuck, M.D., *Alumni Assistant in Clinical Medicine.*

The study of Clinical Medicine begins with the second half of the second year. Daily instruction is given by clinical lectures, hospital visits, and other exercises.

Second Year. — The following courses continue during the second half-year.

Physical diagnosis for the class in small sections. Every student attends two exercises a week.

Clinical instruction for the entire class, twice a week, in diagnostic methods, diagnosis, and treatment.

Third Year. — Four exercises a week are held in the hospital amphitheatres. The teaching is more advanced, with greater stress on therapeutics. The amount of clinical material is so large that during the year a wide range of diseases is illustrated practically. Even of the rarer affections often several examples are shown.

Supplementary instruction is given to the class in small sections, in the ward and out-patient departments, in connection with the Department of Theory and Practice. Each student attends forty-eight exercises during the year.

Text-books. — Osler, Practice of Medicine. Strümpell, Text-book of Medicine. Musser, Medical Diagnosis. Simon, Clinical Diagnosis. Cabot, Physical Diagnosis. Forchheimer, Prophylaxis and Treatment of Internal Disease.

Collateral Reading. — Allbutt, System of Medicine. Osler's Modern Medicine. Nothnagel, Specielle Pathologie und Therapie Fagge and Pye-Smith, Practice of Medicine. Gowers, Diseases of the Nervous System. Hare, Practical Diagnosis. Butler, Diagnostics of Internal Medicine. Le Fevre, Physical Diagnosis. Sahli, Diagnostic Methods.

SECOND YEAR.

Clinics. Professor SHATTUCK (M.G.H.) and Dr. H. JACKSON (B.C.H.). *Twice a week, second half-year.*	32
Physical Diagnosis. Drs. J. M. JACKSON and LORD (M.G.H.) and Dr. ROBEY (B.C.H.). *Two exercises a week, second half-year, for each student.*	32

THIRD YEAR.

Clinics. Professor SHATTUCK. (M.G.H.) *Twice a week, first half-year; once a week, second half-year.*	48
Assistant Professor SEARS. (B.C.H.) *Twice a week, first half-year; once a week, second half-year.*	48
Dr. H. JACKSON. (B.C.H.) *Once a week, second half-year.*	16
Dr. BARTOL. (B.C.H.) *Once a week, second half-year.*	16

Pediatrics.

THOMAS MORGAN ROTCH, M.D., *Professor of Pediatrics.*
JOHN H. MCCOLLOM, M.D., *Professor of Contagious Diseases.*
JOHN L. MORSE, M.D., *Assistant Professor of Pediatrics.*
MAYNARD LADD, M.D., *Instructor in Pediatrics.*
CHARLES H. DUNN, M.D., *Clinical Instructor in Pediatrics.*
HENRY I. BOWDITCH, M.D., *Assistant in Pediatrics.*
WILLIAM P. LUCAS, M.D., *Assistant in Pediatrics.*
PHILIP H. SYLVESTER, M.D., *Assistant in Pediatrics.*

Third Year. — Lectures on such selected topics as the exanthemata feeding and gastro-enteric diseases preparatory for the clinical teaching are given early in the year. Clinical lectures are given from November to March inclusive at the Children's Hospital and at North Grove Street; the students are required to take an active part in the examination and discussion of the cases. A certain number of recitations on subjects selected as best taught in this way, such as Development, are held in the course of the year, and a large amount of case teaching is given in the latter part of the year. Sectional teaching at the bedside is given from October to May inclusive, and comprises a large proportion of the year's instruction. During the first half-year the class in sections receives instruction three times a week in the contagious wards of the Boston City Hospital, where each student is shown and examines cases of diphtheria, scarlet fever, and measles. Each student is taught the technique of intubation, and has an opportunity to see intubation performed. In all the clinical and sectional teaching especial attention is paid to clinical therapeutics.

Text-book. — Rotch, Pediatrics.

Collateral Reading.—Pfaundler and Schlossmann, The Diseases of Children. Northrup, American Edition of The Diseases of Children, by Ashby and Wright. Jacobi, Therapeutics of Infancy and Childhood. Holt, Diseases of Infancy and Childhood. Sachs, The Nervous Diseases of Children.

Third Year.

Lectures. Professor Rotch. (H.M.S.) *Once a week, October 1 to December 24; twice a week, February 1 to February 23; once a week, March 1 to March 15.* 22

Assistant Professor Morse. (H.M.S.) *Once a week, January 7 to January 28, and on March 29 and on March 30.* 6

Clinical lectures. Professor Rotch. (Ch.H.) *Once a week, October 2 to February 12.* 18

Assistant Professor Morse. (North Grove St.) *Once a week, February 19 to March 26.* 6

Recitations. Assistant Professor Morse. *Twice a week, April 5 to April 20.* 6

Dr. Ladd. *Once a week, March 2 to March 23.* 4

Case Teaching. Assistant Professor Morse. *Twice a week, May 17 to May 30.* 5

Dr. Dunn. *Twice a week, May 3 to May 11.* 4

Section Teaching. Professor McCollom. (S.D.B.C.H.) *Three times a week, first half-year.* 48

Drs. Ladd, Dunn, Bowditch, Lucas, and Sylvester *Throughout the year.* 165

Each student receives 29 hours of section teaching. 29

Surgery.

The Division of Surgery is composed of the departments of surgery, clinical surgery, orthopedic surgery, and surgical pathology.

Edward H. Bradford, M.D., *Professor of Orthopedic Surgery.*
Maurice H. Richardson, M.D., *Moseley Professor of Surgery.*
Herbert L. Burrell, M.D., *John Homans Professor of Surgery.*
Edward H. Nichols, M.D., *Assistant Professor of Surgical Pathology.*
James G. Mumford, M.D., *Instructor in Surgery.*
John B. Blake, M.D., *Instructor in Surgery.*
Howard A. Lothrop, M.D., *Instructor in Surgery.*
Charles A. Porter, M.D., *Instructor in Surgery.*
Robert B. Greenough, M.D., *Instructor in Surgery.*
Robert W. Lovett, M.D., *Instructor in Orthopedics.*
Elliott G. Brackett, M.D., *Instructor in Orthopedics.*

Paul Thorndike, M.D., *Instructor in Genito-Urinary Surgery.*
Samuel J. Mixter, M.D., *Lecturer on Surgery.*
George H. Monks, M.D., M.R.C.S., *Lecturer on Surgery.*
Francis S. Watson, M.D., *Lecturer on Genito-Urinary Surgery.*
Francis B. Harrington, M.D., *Lecturer on Surgery.*
Charles L. Scudder, M.D., *Lecturer on Surgery.*
Fred B. Lund, M.D., *Lecturer on Surgery.*
Augustus Thorndike, M.D., *Assistant in Orthopedics.*
William E. Faulkner, M.D., *Assistant in Surgery.*
George W. W. Brewster, M.D., *Assistant in Surgery.*
James S. Stone, M.D., *Assistant in Surgery.*
Ernest A. Codman, M.D., *Assistant in Surgery.*
Joshua C. Hubbard, M.D., *Assistant in Surgery.*
Daniel F. Jones, M.D., *Assistant in Surgery.*
Le Roi G. Crandon, M.D., *Assistant in Surgery.*
Walter C. Howe, M.D., *Assistant in Surgery.*
Channing C. Simmons, M.D., *Assistant in Surgery.*
David D. Scannell, M.D., *Assistant in Surgery.*
Edward H. Risley, M.D., *Alumni Assistant in Surgery.*

Frank L. Richardson, M.D., *Austin Teaching Fellow in Surgery.*

Instruction is given by systematic lectures, surgical anatomy lecture demonstrations, recitations, lecture demonstrations, clinical lecture demonstrations, and by section teaching in the wards, in the out-patient departments, and in the laboratory.

Second and Third Years.—A course in surgical pathology, consisting of laboratory exercises, in which are studied the healing of wounds, fractures, diseases of bones and joints, and the special pathology which is of surgical importance, is given in the month of January. A series of clinical lectures, illustrating the lesions studied in this course in the laboratory, is given at the Boston City Hospital. During the second half of the second year and in the first half of the third year the instruction consists of systematic lectures, recitations, demonstrations of surgical pathological material, and clinical demonstrations. Every week the student has four lectures, demonstrations or recitations, and four clinical exercises illustrating the lectures, demonstrations and recitations. In the first week the systematic lectures are given on surgical technique; in the second week on surgical materials and case-taking; in the third week on trauma, hemorrhage, sepsis, etc. The various subjects in surgery are taken up in successive weeks and illustrated contemporaneously by clinical lectures and demonstrations, until the end of the first half of the third year. During the whole course surgical anatomy lectures will be given on special subjects in surgery. As early as may be in the second half of the second year, the course in surgical technique is given. It consists of six hours of lectures to the entire class, and of twelve laboratory exercises, of two hours each, to the class in sections. The laboratory course consists of the application of bandages and surgical apparatus, and of the preparation and application of surgical dressings and materials by the students.

After the course in surgical technique the student is required to serve satisfactorily at least one month in the surgical out-patient department of the Massachusetts General Hospital or the Boston City Hospital. In the month of February all the students will be assigned to serve one month during the year beginning April 1, 1909, at one or other of these hospitals. In the first half of the third year the student receives instruction in the surgical wards of the Massachusetts General and Boston City Hospitals, and also receives instruction in anesthesia. In this section teaching students have instruction on a number of selected subjects in major surgery, are brought into personal contact with the patient at the bedside, and have practical experience in the diagnosis, prognosis, and treatment of surgical cases.

A required course in orthopedic surgery is given in the first half of the year and consists of lectures at the Medical School and of clinical exercises at the Children's Hospital.

A required course in genito-urinary surgery is given in the first half of the third year, consisting of eight lectures. In the second half of the third year the class is divided into small sections, and each student receives instruction for six hours in the out-patient departments in the details of minor genito-urinary work.

Books recommended. — International Text-book of Surgery. Warren, Surgical Pathology. American Text-book of Surgery. Cheever, Lectures on Surgery. Park's Modern Surgery. Dennis, System of Surgery. Von Bergmann and W. T. Bull, System of Surgery. König, Lehrbuch der Speciellen Chirurgie. Bryant, Operative Surgery. Jacobson (and Steward), Operations of Surgery. DaCosta, Modern Surgery. Eisendrath, Surgical Diagnosis. Scudder, Treatment of Fractures. Stimson, Fractures and Dislocations. Binnie, Operative Surgery. Wharton, Minor Surgery and Bandaging. Whitman, Orthopedic Surgery. Bradford and Lovett, Orthopedic Surgery. Hoffa, Orthopädische Chirurgie. Keyes, Surgical Diseases of the Genito-Urinary Organs. Morton, Genito-Urinary Diseases and Syphilis. Mumford, Clinical Talks on Minor Surgery. Gould, The Technique of Operations on the Intestines and Stomach. Burrell and Blake, Case Teaching in Surgery.

Second Year.

Laboratory course in Surgical Pathology. Assistant Professor Nichols. (H.M.S.) *Twenty three-hour exercises during January.* (See Pathology.) 60

Clinical lectures in connection with the above course. Assistant Professor Nichols. (B.C.H.) *Twelve exercises during January.* 12

Laboratory course in Surgical Technique. Dr. Lothrop. *Six lectures to the entire class.* 6

Twelve two-hour exercises for each student during second half of second year. 24

Systematic lectures, surgical anatomy lecture demonstrations, demonstrations, and recitations. Professors Richardson and Burrell, and Drs. Lothrop and Greenough. (H.M.S.) *Four times a week.* 128

Clinical demonstrations in connection with the above lectures. Professor Richardson (M.G.H.), Professor Burrell, and Drs. J. B. Blake and Lothrop. (B.C.H.). *Four times a week.* 64

Third Year.

Systematic lectures, surgical anatomy lecture demonstrations, demonstrations, and recitations. Professors Richardson and Burrell. (H.M.S.) *Three times a week, first half-year.* 48

Clinical demonstrations in connection with above lectures. Professors Richardson (M.G.H.) and Burrell (B.C.H.). *Twice a week, first half-year.* 32

Clinical lectures. Dr. C. A. Porter. (M.G.H.) *Once a week, second half-year.* 16

Professor Burrell and Dr. Monks. (B.C.H.) *Twice a week, second half-year.* 32

Clinical exercises in surgical wards. Professor Richardson, and Drs. Harrington, Lothrop, Codman, Lund, and Crandon. *Twice a week for eight weeks, first half-year.* 16

Lectures and demonstrations. Orthopedic surgery. Professor Bradford. (H.M.S. and Ch. H.) *Once a week, first half-year.* 16

Lectures. Genito-Urinary Surgery. Dr. Thorndike. (H.M.S.) *Once a week for eight exercises in October and November.* 8

Section teaching at the Hospitals. *One hour a day for six days.* 6

Case Teaching. Dr. J. B. Blake. (H.M.S.) *Once a week, beginning March 1.* 12

Obstetrics and Gynaecology.

Charles M. Green, M.D., *Professor of Obstetrics.*

Franklin S. Newell, M.D., *Assistant Professor of Obstetrics and Gynaecology.*

Ernest B. Young, M.D., *Instructor in Gynaecology.*

Howard T. Swain, M.D., *Instructor in Obstetrics.*
Malcolm Storer, M.D., *Assistant in Gynaecology.*
William P. Graves, M.D., *Assistant in Gynaecology.*
Leo V. Friedman, M.D., *Assistant in Obstetrics and Gynaecology.*
James R. Torbert, M.D., *Assistant in Obstetrics.*
Nathaniel R. Mason, M.D., *Assistant in Obstetrics and Gynaecology.*
Robert L. DeNormandie, M.D., *Assistant in Obstetrics.*

OBSTETRICS.

Third Year. — Instruction is given by lectures, recitations, conferences, and clinical teaching. Students are required to take charge of at least six cases of labor, to receive clinical instruction on at least one of them, to care for their patients during the convalescence, and to make full written reports of the cases. Many of these reports are read at the conferences and discussed by the class and the instructors.

Text-book. — J. W. Williams, A Text-book of Obstetrics.

Collateral Reading. — Peterson, The Practice of Obstetrics. Reynolds and Newell, Practical Midwifery. Lusk, The Science and Art of Midwifery. Jellett, Manual of Midwifery.

Third Year.

Lectures on the Theory and Practice of Obstetrics. Professor Green. (H.M.S.) *Twice a week.* 64

Recitations. Assistant Professor Newell. (H.M.S.) *Once a week.* 32

Conferences. Professor Green, Assistant Professor Newell, and Drs. Swain, Friedman, Torbert, Mason, and DeNormandie. (H.M.S.) *Once a week.* 32

Practical instruction in Clinical Obstetrics. Drs. Swain, Friedman, Torbert, Mason, and DeNormandie. *Throughout the year, i.e., every student must receive instruction on one of the cases of labor which he attends, and may ask for instruction on his other cases, if he desires.*

GYNAECOLOGY.

Third Year. — Instruction is given by lectures, recitations, and clinical teaching. Clinics are held in the out-patient departments of the Boston City Hospital, the Boston Dispensary, and the Free Hospital for Women, and the student is instructed in diagnosis, and in the treatment of ambulatory cases.

Text-book. — Dudley, Principles and Practice of Gynaecology.

Collateral Reading. — Hirst, Text Book of Diseases of Women. Davenport, Diseases of Women. Winckel, Diseases of Women. Emmet, Principles and Practice. Byford, Manual of Gynaecology. Penrose, Textbook of Diseases of Women. Ashton, Practice of Gynaecology.

THIRD YEAR.

Lectures or recitations. Professor GREEN, Assistant Professor NEWELL, and Dr. YOUNG. (H.M.S). *Twice a week, second half-year.* 32

Clinical exercises. Dr. STORER (B.D.), Dr. GRAVES (F.H. for W.), and Drs. YOUNG and MASON (B.C.H.). *In sections, during the second half-year. Each student may attend six clinics of two hours each.* 12

Dermatology and Syphilis.

JOHN T. BOWEN, M.D., *Edward Wigglesworth Professor of Dermatology.*
ABNER POST, M.D., *Assistant Professor of Syphilis.*
CHARLES J. WHITE, M.D., *Instructor in Dermatology.*
HARVEY P. TOWLE, M.D., *Assistant in Dermatology.*
C. MORTON SMITH, M.D., *Assistant in Syphilis.*
FREDERICK S. BURNS, M.D., *Assistant in Dermatology.*

DERMATOLOGY.

Third Year. — A course of lectures, recitations, and demonstrations is given during October and November, and a weekly clinical exercise extends throughout the year.

Collateral Reading.—Stelwagon. Duhring. Hyde. Robinson. Crocker. Kaposi. v. Ziemssen. Besnier. Van Harlingen. Jackson. Taylor.

THIRD YEAR.

Lectures, demonstrations, and recitations on diseases of the skin. Professor BOWEN. (H.M.S.) *Once a week during October and November.* 8

Clinical Dermatology. Professor BOWEN. (M.G.H.) *Once a week.* 32

Clinical exercises. Drs. TOWLE and BURNS. (M.G.H.) *In sections, twice a week, February, March, April, and May.* 8

SYPHILIS.

Third Year. — Lectures and clinical instruction are given at the Boston Dispensary.

THIRD YEAR.

Lectures. Assistant Professor POST. (H.M.S.) *Once a week, December and January.* 8

Clinical lectures. Assistant Professor POST and Dr. SMITH. (B.D.) *Once a week, April and May.* 8

Clinical exercises. Assistant Professor POST and Dr. SMITH. (B.D.) *In sections, twice a week, second half-year. Each student attends six two-hour exercises.* 12

Neurology and Psychiatry.

James J. Putnam, M.D., *Professor of Diseases of the Nervous System.*
Philip Coombs Knapp, M.D., *Clinical Instructor in Diseases of the Nervous System.*
Edward W. Taylor, M.D., *Instructor in Neurology.*
Edward Cowles, M.D., LL.D., *Instructor in Mental Diseases.*
George T. Tuttle, M.D., *Clinical Instructor in Mental Diseases.*
William Noyes, M.D., *Clinical Instructor in Mental Diseases.*
George A. Waterman, M.D., *Assistant in Neurology.*

NEUROLOGY.

Second Year.—Instruction is given during December on the pathology of the nervous system. The course is illustrated by lantern projections of histological preparations and by work in the laboratory.

Third Year.—During the first half-year one exercise a week, and during the second half-year two exercises a week, are given at the Massachusetts General Hospital. The object of the course is to give the student a first-hand knowledge of the principles of diagnosis and treatment of diseases of the nervous system supplementary to the work in general internal medicine. The general plan of instruction is (*a*) Review of the anatomy of the nervous system essential to diagnosis of organic diseases; lectures and demonstrations. (*b*) Pathological anatomy in its relation to diagnosis; demonstrations of stained specimens and photographs. (*c*) Study of cases as they present themselves at the Out-Patient Department of the Hospital and in the wards. (*d*) Work in the Case-system. Short examinations and conferences will be held at intervals during the year.

Text-book.—Putnam and Waterman, Studies in Neurological Diagnosis.

Collateral Reading.—Oppenheim, Diseases of the Nervous System (latest German edition). Gowers, Diseases of the Nervous System. Dana, Text-book of Nervous Diseases (latest edition). Herter, Diagnosis of Nervous Diseases (latest revised edition). Starr, Functional and Organic Diseases of the Nervous System. Purves Stewart, Diagnosis of Nervous Diseases. Janet, The Major Symptoms of Hysteria. Sherrington, The Integrative Action of the Nervous System. Bianchi, A Text-book of Psychiatry for Physicians and Students.

Second Year.

Pathology of the Nervous System. Assistant Professor Southard. (H.M.S.) *Fifteen exercises during December.* (See Pathology.) 45

Third Year.

Lectures, Demonstrations, and Clinical exercises. Professor Putnam, and Drs. Taylor and Waterman. (M.G.H.) *Once a week, first half-year; twice a week, second half-year.* 48

PSYCHIATRY.

Third Year. — Systematic lectures are given at the Medical School during the second half-year, and clinical instruction is offered at the Boston Insane Hospital.

Text-books. — Kraepelin, Psychiatric (English translation, Defendorf — Clinical Psychiatry). Clouston, Clinical Lectures on Mental Diseases. Folsom, Monograph in Pepper's System of Medicine. Berkley, Mental Diseases. Regis, Manual of Mental Medicine. Paton, Psychiatry.

Collateral Reading. — Krafft-Ebing, Text-book of Insanity. Church and Peterson, Nervous and Mental Diseases. Brower and Bannister, Insanity. James, Psychology. Tuke, Dictionary of Psychological Medicine. Baldwin, Dictionary of Philosophy and Psychology. Hall, Adolescence. Barr, Mental Defectives.

THIRD YEAR.

Lectures. Dr. COWLES. (H.M.S.) *Once a week, second half-year.* 16
Clinical exercises. Dr. COWLES. (B.I.H.) *At stated intervals.* 3–4

Ophthalmology.

MYLES STANDISH, M.D., *Assistant Professor of Ophthalmology.*
EDWIN E. JACK, M.D., *Instructor in Ophthalmology.*
ALEXANDER QUACKENBOSS, M.D., *Instructor in Ophthalmology.*
HENRY H. HASKELL, M.D., *Assistant in Ophthalmology.*
EDMUND W. CLAP, M.D., *Assistant in Ophthalmology.*
FRED M. SPALDING, M.D., *Assistant in Ophthalmology.*

Third Year. — Instruction consists of lectures at the Medical School and of clinical exercises devoted to diagnostic methods, diagnosis, and treatment at the Massachusetts Charitable Eye and Ear Infirmary.

Text-books. — DeSchweinitz. Fuchs. Hansell and Sweet.

Collateral Reading. — Loring, On the Ophthalmoscope Landolt, Refraction and Accommodation. Norris and Oliver, System of Diseases of the Eye. Haab, Atlas of the External Diseases of the Eye.

THIRD YEAR.

Lectures. Assistant Professor STANDISH. (H.M.S.) *Twice a week, in October and November.* 16

Clinical exercises. Drs. JACK, QUACKENBOSS, HASKELL, CLAP, and SPALDING. (E. and E.I.) *In sections, ten hours a week, first half-year. Every student receives fourteen hours of instruction.* 14

Otology.

Clarence J. Blake, M.D., *Walter Augustus Lecompte Professor of Otology.*
Eugene A. Crockett, M.D., *Instructor in Otology.*
Philip Hammond, M.D., *Instructor in Otology.*
William F. Knowles, M.D., *Assistant in Otology.*
Alfred M. Amadon, M.D., *Assistant in Otology.*
Harris P. Mosher, M.D., *Assistant in Otology.*
David H. Walker, M.D., *Assistant in Otology.*

Third Year. — Lectures are given at the Medical School, and clinical instruction at the Massachusetts Charitable Eye and Ear Infirmary.

Text-books. — Brühl and Politzer. Bacon.

Collateral Reading. — Politzer, Text-book of Diseases of the Ear; 4th ed., translated by Ballin and Heller. Blake and Reik.

Third Year.

Lectures. Professor Blake. (H.M.S.) *Twice a week, February and March; once a week, April and May.*	24
Clinical exercises. (E. and E.I.) *In sections, two hours, five times a week, second half-year. Every student attends ten exercises.*	20

Laryngology and Rhinology.

Algernon Coolidge, Jr., M.D., *Assistant Professor of Laryngology.*
Frederic C. Cobb, M.D., *Instructor in Laryngology.*
J. Payson Clark, M.D., *Instructor in Laryngology.*
Joseph L. Goodale, M.D., *Instructor in Laryngology.*
Rockwell A. Coffin, M.D., *Instructor in Laryngology.*
Harris P. Mosher, M.D., *Instructor in Laryngology.*
Harry A. Barnes, M.D., *Assistant in Laryngology.*
George H. Wright, D.M.D., *Assistant in Laryngology.*

Third Year. — Instruction consists of lectures and demonstrations, and of training in the use of instruments. The entire class has twenty-four lectures during the second half-year. For the practical work at the Massachusetts General Hospital, the Boston City Hospital, and the Boston Dispensary, the class is divided into small sections.

Third Year.

Lectures. Assistant Professor Coolidge. (H.M.S.) *Once a week, February and March; twice a week, April and May.*	24
Clinical exercises. Assistant Professor Coolidge, and Drs. Clark, Goodale, Mosher (M.G.H.), Coffin (B.C.H.) and Cobb (B.D.). *In sections, second half-year. Twelve exercises for each student.*	12

Legal Medicine.

Legal Medicine is no longer taught as a separate required study; but the several departments will give instruction in the medico-legal aspects of their respective subjects. Dr. G. B. Magrath, Instructor in Legal Medicine, will offer this year a voluntary or elective course in the subject, concerning which definite information will be posted later on the bulletin boards.

Municipal Sanitation.

Samuel H. Durgin, M.D., *Lecturer on Hygiene.*

Third Year. Optional Course.

Lectures. Dr. Durgin. (H.M.S.) *Twice a week, February and March.* 16

FOURTH-YEAR ELECTIVES

The electives of the fourth year are given as half-courses. A half-course occupies the entire day for one month (the all-day plan) or the forenoons or the afternoons for two months (the half-day plan). Each half-course has a value of 125 hours. Eight half-courses are necessary to satisfy the requirement of one thousand hours of work demanded in the fourth year. The two half-courses elected for the first two or the last two months of each half-year must be formed on the same plan to avoid conflict.

Neuropathology, medicine, pediatrics, surgery, and obstetrics offer electives on the all-day plan.

Anatomy, comparative anatomy, comparative pathology, genito-urinary surgery, orthopedics, surgical pathology, clinical surgical pathology, gynaecology, dermatology, neurology and psychiatry, ophthalmology, otology, and laryngology offer electives on the half-day plan.

Physiology, comparative physiology, biochemistry, bacteriology, pathology, hygiene, and theory and practice offer electives on both plans.

The several half-courses offered by any one department are not necessarily graded courses, but represent hours of clinical, technical, and research work.

Students who intend to become general practitioners are advised to elect the following group of subjects: —

Medicine (theory and practice, clinical medicine)	3	half-courses.
Pediatrics	1	“ “
Surgery	1	“ “
Obstetrics	1	“ “
Neurology and psychiatry, dermatology and syphilis, or gynaecology	1	“ “
Anatomy, comparative anatomy, physiology, biochemistry, bacteriology, neuropathology, hygiene, or orthopedics	1	“ “

Students interested in surgery are advised to elect the following group of subjects: —

Medicine (theory and practice, clinical medicine)	2	half-courses.	
Surgery	2	"	"
Genito-urinary surgery	1	"	"
Anatomy	1	"	"
Gynaecology or clinical surgical pathology	1	"	"
Orthopedics or surgical pathology	1	"	"

Students wishing to specialize in any particular branch of medical study may elect more than one of the half-courses offered in a given subject, but no student will be allowed to devote his whole year to one subject without the consent of the head of the department concerned. Special arrangements will be made for students desirous of paying exclusive attention to other subjects than those listed, for example, pharmacology and comparative pathology.

When a student's research work in an elective is necessarily prolonged beyond the time elected for that subject, he will be allowed, with the permission of the Board of Administration, to make such changes in his electives as will enable him to finish his research work, provided the time required does not extend beyond the school year.

The final choice of electives must be left at the Dean's office on or before September 15.

The Faculty reserves the right to modify the selection of the courses chosen by any student. The *order* in which a student's electives are arranged must be determined by the Secretary of the Faculty.

The nature of the examinations shall be determined by each department subject to the approval of the Faculty. The student's credit may be based on his daily written record of work, and on a practical or written examination at the end of his course, or upon all combined. The mark assigned must be sent immediately to the Dean's office.

FOURTH-YEAR ELECTIVES ARRANGED UNDER DEPARTMENTS

Anatomy.—Half-courses, afternoons, throughout the year.

Anatomy 1	October–November; December–January; February–March.
Anatomy 2	April–May.

Comparative Anatomy.—Half-courses, forenoons or afternoons, throughout the year.

Comparative Anatomy 1. Comparative Anatomy, Embryology, Histology, and Cytology. Forenoons or afternoons, throughout the year.

Comparative Anatomy 2. Development and structure of the ear, eye, and nasopharynx. Afternoons, October and November.

Physiology. — Half-courses, forenoons, afternoons, or all day, throughout the year.

Physiology 1. Half-course, afternoons, October and November.

Physiology 2. Half-course, afternoons, December and January.

Physiology 3. Half-courses, forenoons, afternoons, or all day, throughout the year.

Physiology 4. Half-courses, forenoons, afternoons, or all day, throughout the year.

Comparative Physiology. — Half-courses, forenoons, afternoons, or all day, throughout the year.

Biological Chemistry (Biochemistry 20). — Half-courses, forenoons throughout the year; all day or afternoons, first half-year.

Bacteriology. — Half-courses, forenoons, afternoons, or all day, second half-year.

Pathology. — Half-courses, forenoons, afternoons, or all day, throughout the year.

Pathology 1. Half-courses, forenoons, or all day, second half-year.

Pathology 2 (Neuropathology). Half-courses, all day, throughout the year.

Pathology 3 Half-courses, afternoons, second half-year.

Pathology 4. Half-courses, afternoons, second half-year.

Pathology 5. Half-courses, all day, or afternoons, throughout the year.

Pathology 6. Half-courses, all day, or afternoons, throughout the year.

Pathology 7. Half-course, afternoons, February and March.

Comparative Pathology. — Half-courses, afternoons, first half-year.

Hygiene. — Half-courses, forenoons, afternoons, or all day, throughout the year.

Theory and Practice. — Half-courses, forenoons, afternoons, or all day, throughout the year.

Theory and Practice 1. Half-courses, all day, throughout the year.

Theory and Practice 2. Half-courses, all day, throughout the year.

Theory and Practice 3. Half-courses, afternoons, or all day, first half-year.

Theory and Practice 4. Half-courses, afternoons, or all day, first half-year.

Theory and Practice 5. Half-courses, afternoons, or all day, throughout the year.

Theory and Practice 6. Half-courses, forenoons, or all day, first half-year.

Theory and Practice 7. Half-courses, afternoons, or all day, first half-year.

Clinical Medicine. Half-courses, all day, throughout the year.

Pediatrics. — Half-courses, all day, throughout the year.

Surgery. — (1) Surgery. Half-courses, all day, throughout the year.
(2) Genito-Urinary Surgery. Half-courses, forenoons, throughout the year.
(3) Orthopedics. Half-courses, afternoons, throughout the year.
(4) Surgical Pathology. Half-courses, afternoons, December to May, inclusive.
(5) Clinical Surgical Pathology. Half-courses, forenoons, throughout the year.

Obstetrics and Gynaecology : —
(1) Obstetrics. Half-courses, all day, throughout the year.
(2) Gynaecology. " forenoons, " "

Dermatology and Syphilis. " " " "

Neurology and Psychiatry. " " " "

Ophthalmology. " " second half-year.

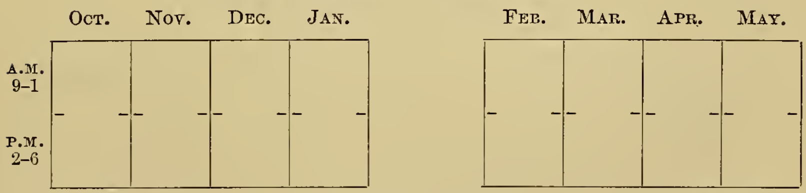
Otology. " " throughout the year.

Laryngology. " " " "

Combined Course: Ophthalmology, Otology, and Laryngology. All day, throughout the year.

DIAGRAMS OF FOURTH-YEAR ELECTIVES

Half-courses. — All-day Plan.



Physiology 3 and 4.
Comparative Physiology.
Biochemistry.*
Bacteriology.**
Pathology 1,** 5, and 6.

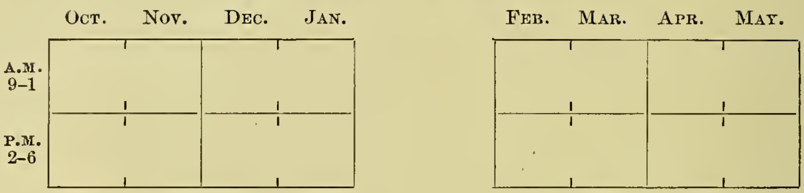
Neuropathology.
Hygiene.
Theory and Practice 1, 2, 3,* 4,* 5, 6,* and 7.*

Clinical Medicine.
Pediatrics.
Surgery.
Obstetrics.

* = first half-year.

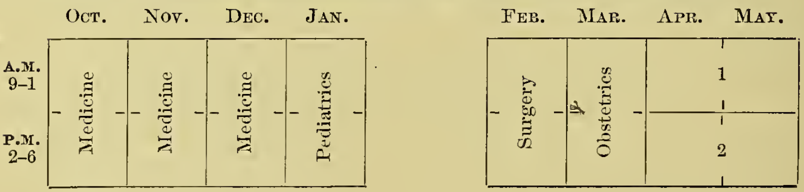
** = second half-year.

Half-courses. — Half-day Plan.



Forenoons.	*Afternoons.*
Comparative Anatomy 1.	Anatomy 1 and 2.
Physiology 3 and 4.	Comparative Anatomy 1 and 2.
Comparative Physiology.	Physiology 1, 2, 3, and 4.
Biochemistry.	Comparative Physiology.
Bacteriology.**	Biochemistry.*
Pathology 1.**	Bacteriology.**
Hygiene.	Pathology 3,** 4,** 5, and 6.**
Theory and Practice 6.*	Comparative Pathology.*
Genito-Urinary Surgery.	Hygiene.
Clinical Surgical Pathology.	Theory and Practice 3,* 4,* 5, and 7.*
Gynaecology.	Orthopedics.
Dermatology and Syphilis.	Surgical Pathology.
Neurology and Psychiatry.	
Ophthalmology.**	
Otology.	
Laryngology.	

Group of Courses Recommended for the General Practitioner.



Medicine	3	half-courses.	
Pediatrics	1	"	"
Surgery	1	"	"
Obstetrics	1	"	"
(1) Neurology and psychiatry, dermatology, or gynaecology	1	"	"
(2) Anatomy, comparative anatomy 1, physiology, biochemistry, bacteriology, neuropathology, hygiene, or orthopedics . . .	1	"	"

* = first half-year. ** = second half-year.

Group of Courses Recommended to Men interested in Surgery.

	Oct.	Nov.	Dec.	Jan.
A.M. 9–1	Medicine	Medicine	Surgery	Surgery
P.M. 2–6				

	Feb.	Mar.	Apr.	May.
A.M. 9–1	G. U. Surgery		1	
P.M. 2–6	Anatomy		2	

Medicine	2 half-courses.		
Surgery	2	“	“
Genito-urinary surgery	1	“	“
Anatomy	1	“	“
(1) Gynaecology or clinical surgical pathology	1	“	“
(2) Orthopedics or surgical pathology	1	“	“

GENERAL PLAN OF INSTRUCTION

Anatomy. Half-courses, afternoons, throughout the year.

Anatomy 1. October and November; December and January; February and March. Professor Dwight and Assistant Professor Warren.

This is a course in which the three parts of the body are to be dissected. This work will be supplemented by the study of frozen sections and a certain number of lectures and demonstrations.

N. B. — No one can take this course who has not passed his first-year anatomy.

Anatomy 2. April and May. Professor Dwight.

This is a course in advanced anatomy for those especially interested in the subject. Opportunities for work along special lines will be given. Students who wish to elect this course must first consult the professor of anatomy who reserves the right to reject any applicant.

Comparative Anatomy. Half-courses, forenoons or afternoons, throughout the year.

Comparative Anatomy 1. Comparative Anatomy, Embryology, Histology, and Cytology. Half-courses will be given to meet, as far as possible, the requirements of students. The exact character and hours of such courses will be arranged with the individual student.

Special arrangements may be made for courses in Histology and Embryology in connection with work in any of the specialties : such as Obstetrics, Genito-urinary Surgery, Neurology, Ophthalmology, Otology, Laryngology, etc. Plans for such courses may be settled in consultation with the clinical instructor in the specialty chosen and with Professor Minot, Dr. Bremer, or Dr. Lewis.

Comparative Anatomy 2. The development and structure of the ear, eye, and nasopharynx. A half-course has been arranged for students of Laryngology, Ophthalmology, and Otology. Afternoons, October and November.

Physiology. Half-courses, forenoons, afternoons, or all day, throughout the year.

Physiology 1. Physiology of the nervous system. A half-course in the afternoons of October and November.

The students will read classical papers, repeat important experiments, and meet the instructor at regular intervals for report and discussion. The course is planned primarily for students who intend to become clinical neurologists

Physiology 2. Physiology of the eye, the ear, and the upper respiratory tract. A half-course in the afternoons of December and January.

The students will report on suggested reading of original papers, will perform illustrative experiments, and will meet the instructor at regular intervals for report and discussion. The course is intended especially for students who have elected courses in ophthalmology, otology, and laryngology. A student may, if he desires, devote the whole time to one or more of the subjects.

Physiology 3.

Detailed study in other special subjects in physiology. Such study will include preparation of bibliographies, reading of classical papers, repetition of important experiments, and reports on work accomplished.

Physiology 4. Investigation.

Students, properly qualified, who are willing to spend sufficient time in research, will be welcomed into the laboratory and given problems to work upon. During the conduct of their investigations they will receive the counsel and guidance of other investigators working with them.

Comparative Physiology. Half-courses, forenoons, afternoons, or all day, throughout the year.

Students may elect work in any field of physiology. It is to be presumed that such students desire additional work in physiology to fit them for some special field of medicine, for example, the diseases of the nervous system; or they may wish to pursue physiology, pathology, or some other biological science as a profession. They will be received into the research laboratories of the department, and will carry on their studies with the personal assistance of Professor Porter. The work will consist of fundamental experiments, the study of accessory data, and the reading of selected original investigations. The course is open to qualified persons not students in the Medical School.

BIOCHEMISTRY. — Research in Biological Chemistry. Half-courses, forenoons, throughout the year; all day or afternoons, first half-year.

A student may elect work in any field of biochemical research for which he is qualified by his previous training. Students are advised to elect this course during November and December, so that they may be able to include in it Biochemistry 2. (cf p. 30.) For detailed information they are referred to the pamphlet of the Department of Biological Chemistry.

BACTERIOLOGY. Half-courses, forenoons, afternoons, or all day, second half-year.

These electives will be of four kinds, including (*a*) instruction in methods of diagnosis depending upon bacteriological procedures; (*b*) instruction in methods of bacteriological diagnosis in use in Health Board laboratories, including the examination of waters and soils; (*c*) instruction in methods of opsonic-index work, with practical application; (*d*) research work in any direction for which the student may be fitted.

Longer courses may include one or the other of these, together with a limited piece of research work.

PATHOLOGY.

Pathology 1. Half-courses, forenoons or all day, second half-year.

The work will consist of (*a*) training in the technical methods used in pathology; (*b*) attendance at postmortem examinations at the various hospitals, and the fixation and study of tissues obtained from them; (*c*) study of the more unusual pathological lesions; (*d*) research work in any line which a student demonstrates his fitness to pursue.

Pathology 2. Neuropathology. Assistant Professor E. E. SOUTHARD. Half-courses, all day, throughout the year.

The course is given either at the Harvard Medical School or at the Danvers Insane Hospital. Except in individual instances, the method of the course will involve the working-up, as if for publication, of a selected case. The report will be based upon the personal employment of approved neuropathological methods and upon a variable amount of library work. Students electing to pursue their work, wholly or in part, at Danvers, are permitted to attend the daily case-readings of the hospital staff and to work upon selected cases in the wards.

Daily, except Sunday, at the Harvard Medical school or at the Danvers Insane Hospital.

Limited to two during a given month. The instructor should be consulted in advance.

In addition to these two general electives, the following special courses are also open as electives to fourth-year students: —

Pathology 3. The Classification and Diagnosis of Tumors. Professor F. B. Mallory. Half-courses, afternoons, second half-year.

The course consists of the study of the histological classification of tumors and of the normal cells on which this classification is based. It involves training in the methods of fixing and staining best fitted to bring out the characteristics of each kind of cell so that it can be distinguished from other cells. Much attention is also paid to the practical diagnosis of tumors.

Pathology 4. Protozoölogy. Dr. E. E. Tyzzer. Half-courses, afternoons, second half-year.

The first object of the course will be to enable the student to familiarize himself with a number of the more representative types and species of parasitic protozoa. The remainder of the course will consist in work upon a special problem, with the end in view of providing training in the investigation of protozoan infections.

Both experimental and histological methods will be employed. The experiments will necessarily be shaped according to the nature of the problems taken up. The histological work will consist of the morphological study of the parasites and of the changes which they produce in the host. The course is open to a limited number of fourth-year students.

Pathology 5. The Inoculable Tumors of Mice and Rats. Dr. E. E. Tyzzer. Half-courses, all day or afternoons, throughout the year.

The Department of Cancer Research offers a course on tumors to not more than four graduate students. Opportunity is afforded for the experimental and histological study of certain inoculable tumors of mice and rats, of which several different strains are available.

The work is not confined strictly to the investigation of tumors, however, but is meant to cover closely related subjects such as growth, hypertrophy, and proliferation. Students are expected to be qualified to do research upon problems which will be outlined for them. The work is to extend over at least one half-year.

Pathology 6. Experimental Pathology. Dr. F. P. Gay. Half-courses, all day, or afternoons, throughout the year.

The subject as considered in this course comprises the experimental study of such phenomena as phagocytosis (including the relations of opsonins to this process), bacteriolysis (Pfeiffer's phenomenon), hemolysis, agglutination (both of bacteria and cells), serum precipitation, antibody formation in general, and anaphylaxis or hypersusceptibility. The work consists in the study of some definite problem in this field, pursued under the personal direction of the instructor. The course will incidentally teach certain technical biological methods, such as the inoculation and bleeding of animals, and the tests for specific properties in blood serum. Although intended primarily as introductory to more systematic research, the work will give insight as to the biological principles which underlie tests of recognized diagnostic value, such as the Widal test for typhoid, the Uhlenhuth forensic test for blood and meats, and the Bordet-Gengou "reaction of fixation" (a test for antibodies or antigens).

The course is limited to two men in any given month, who should consult the instructor previously.

Pathology 7. Ophthalmic Pathology. Dr. F. H. Verhoeff. Half-course, afternoons, February and March, Saturday excepted, at the Massachusetts Charitable Eye and Ear Infirmary.

The various pathological conditions of the eye will be demonstrated with both microscopic and macroscopic specimens. Some attention will also be given to the normal histology of the eye, and the special technique required for the preparation of microscopic specimens will be described. The bacteriology of the eye will be considered, and the more important bacteria concerned in diseases of the eye demonstrated.

Comparative Pathology. Half-courses, afternoons, first half-year. Laboratory work, lectures and conferences. Attendance is limited to ten students. (These courses are also offered to graduate students.)

The laboratory work will consist in a study of such infectious and parasitic diseases of man and the higher animals as are reproducible at will upon the smaller animals. Each disease taken up will be studied as far as possible in the living animal with reference to the cellular reactions and the antibodies of the blood, and the secretions and excretions. The tissue changes will be studied histologically, and the chief biological and pathogenic characters of the microörganisms investigated. At the same time attention will be given to changes in the character of the diseases due to different degrees of artificially induced immunity.

Research. Students who have taken the above pro-research courses or their equivalents will be admitted as research students to work upon some problem in experimental and comparative pathology for which adequate facilities can be provided. Such work may be undertaken at the convenience of the student.

Hygiene. Half-courses, forenoons, afternoons, or all day, throughout the year.

The course will consist in part of laboratory instruction and in part of special research. The laboratory instruction will comprise the analysis of air, soils, water and foods, the investigation of disinfectants, etc., and epidemiology.

Before electing this subject, students are advised to consult with the head of the department, and satisfy him that they are properly qualified by previous training.

Theory and Practice of Physic. The electives in medicine offered by the Department of Theory and Practice consist of

Theory and Practice 1. Half-courses, all day, throughout the year.

This work will be given at the Massachusetts General Hospital. Each half-course of one month is limited to four students. The students will spend the entire day in the consecutive study of ward patients. Laboratory facilities will be furnished for the application of such laboratory methods as are needed for an adequate study of these patients. Attendance at autopsies will constitute a part of the work. These courses will be given under the supervision of Dr. PALFREY.

Theory and Practice 2. Half-courses, all day, throughout the year.

This work will be given at the Carney Hospital, and in the laboratory of the Department at the Medical School. Each half-course of one month is limited to four students. During the forenoons two students will alternate between the medical wards and the out-patient department of the Carney Hospital. The work there will consist in a consecutive study of ambulatory and ward patients with the application of appropriate laboratory methods. There will be also an opportunity for the medical observation of surgical cases before and after operation. During the afternoons the students will alternate between the medical wards of the Carney Hospital and the laboratory of the Department at the Medical School. In the medical wards during the afternoons the students will continue the study of assigned cases, and be on hand to take histories and make physical examinations of newly admitted cases: in the laboratory the students will engage in the experimental study of problems connected with their clinical work, the histological study of various pathological lesions, or a continuation of more complicated laboratory procedures for which the hospital laboratory does not furnish facilities. These courses will be given under the supervision of Professor CHRISTIAN, assisted by Drs. LEEN and CHANNING FROTHINGHAM, Jr.

Theory and Practice 3. Half-courses, afternoons, or all day, first half-year, in the laboratory of the Department.

These courses will consist of further practice in the routine methods of the clinical laboratory and represent a continuance of the laboratory course offered to second-year students. They will be given under the supervision of Dr. H. F. HEWES, assisted by Dr. H. M. ADLER.

Theory and Practice 4. Half-courses, afternoons, or all day, first half-year.

These courses will consist of research in the laboratory of the Department and will be given under the direction of Dr. J. H. Pratt, with whom special arrangements for the course must be made.

Theory and Practice 5. Half-courses, afternoons, or all day, throughout the year.

These courses will consist of research in the laboratory of the Department and will be given under the supervision of Professor Christian, assisted by Dr. Channing Frothingham, Jr. Special arrangements for the course must be made with Dr. Christian. The work will consist of investigation by means of animal experimentation with the study of pathological changes produced in various ways.

Theory and Practice 6. Half-courses, forenoons, or all day, first half-year.

These courses will consist of research in the laboratory of the Department and will be given under the direction of Dr. H F. Hewes, with whom special arrangements for the course must be made. They will consist of chemical clinical investigation.

Theory and Practice 7. Half-courses, afternoons, or all day, first half-year.

These courses will consist of research in the laboratory of the Department and will be given under the direction of Dr. H. M. Adler, with whom special arrangements for the course must be made. They will consist of chemical clinical investigation.

Students desirous of taking any of these courses can obtain general information in regard to the character of the work from Dr. Christian.

Clinical Medicine. Half-courses, all day, throughout the year.

The morning will be devoted to clinical work in various out-patient departments, and the afternoon to work in the wards at the Massachusetts General Hospital. One afternoon each week will be devoted to a ward visit and a demonstration in clinico-pathology. The written report of four cases will be required (two from the out-patient work and two from the ward work), and a thesis containing original work of some character, the length of which will vary according to the number of half-courses elected. Eight such courses are offered, and the student may elect as many as he chooses.

(1) *Clinical Instruction.* This is of two kinds: —

(*a*) Work in the morning in the Out-Patient Department under special supervision.

(*b*) Work in the wards under special supervision, with the assignment of cases for study.

(2) *Didactic Teaching*. One exercise each week is devoted to practical therapeutics. The use and effect of drugs in selected cases are considered. One exercise will be devoted to demonstrations in gross pathology given jointly by members of the pathological and medical departments. In this exercise the autopsy material of the previous week is studied at the Massachusetts General Hospital in relation with the clinical history, physical signs, and clinical diagnosis of each case.

(3) *Original Thesis*. Each student shall present before graduation an original thesis which will embody clinical, laboratory, statistical, or literary work. The subject of the thesis shall be approved, and the work done under the supervision of some member of the medical department selected by the student.

PEDIATRICS. Half-courses, all day, throughout the year.

The work will consist of clinical instruction of cases in the wards and out-patient departments of the Infants' Hospital, Children's Hospital and the Contagious wards of the South Department. Students will be assigned to the various wards and out-patient departments by the Professor of Pediatrics and will work under his supervision, and in so far as is practicable the work will be assigned in reference to their individual needs and wishes. The students may also attend the clinical lectures given by Dr. ROTCH in the third year. The direction of the clinical work will be carried out by the other members of the department. One half of each section will work in the mornings in the out-patient department of the Children's Hospital and the other half in the out-patient department of the Infants' Hospital under the direction of a member of the department. The whole section will spend two afternoons a week at the South Department under Dr. MCCOLLOM, and two afternoons in the medical wards of the Children's Hospital under the supervision of an instructor. Two clinical exercises on diseases of the ear in infants and children will be given each month through the courtesy of Dr. CROCKETT. Four exercises on the Roentgen Ray will be given each month by Dr. A. W. GEORGE. Four exercises on the opsonic-index will be given each month by Dr. C. FLOYD. The remaining time will be spent on reading in connection with some subject assigned to each student, and on which a written report will be required.

SURGERY: —

(1) *Surgery*. Half-courses, all day, throughout the year.

The instruction will consist of ward work, the examination of cases, the recording of histories, the establishing of diagnoses, the etherization of patients, the dressing of injuries, wounds, and fractures, the close observation of operations, seeing the progress of a surgical patient, and the end results of cases. The out-patient work will consist of the establishing of diagnoses, the treatment of cases under direction, and the recording of histories. This work will be carried out at the hospitals, in the wards and out-patient departments, and will occupy a part of each day, and will be from time to time directed and supervised by instructors.

The afternoons will be devoted to library, museum, and literary work, surgical pathology, case teaching, regional surgery, and operative surgery. Seminars and conferences will be held as occasion requires. The student will be required to account for his daily work.

(2) *Genito-Urinary Surgery.* Half-courses, forenoons, throughout the year.

The instruction will consist of ward and out-patient work, the taking of histories, the witnessing of and assisting at operations, the reporting of the progress of cases, and seeing the end results. Conferences with the student will be held from time to time.

(3) *Orthopedic Surgery.* Half-courses, afternoons, throughout the year.

The instruction will consist of section teaching, daily, throughout the year, at the Children's Hospital and Massachusetts General Hospital.

(4) *Surgical Pathology.* Half-courses, afternoons, December to May, inclusive.

The course is for students who desire to learn methods of original investigation in any line of the pathology of surgical diseases, especially in the line of experimental work. No formal instruction is given, but students will be assisted and directed in methods and technique. The cost of materials used in experimental work must be met by the student. A four months' course is advised.

(5) *Clinical Surgical Pathology.* Half-courses, forenoons, throughout the year.

The course will consist of a study of clinical cases with especial reference to the pathology of the lesions present and the use of the microscope in immediate diagnosis. The work will be supplemented with conferences and demonstrations in the Warren Museum.

OBSTETRICS AND GYNAECOLOGY: —

(1) *Obstetrics.* Half-courses, all day, throughout the year.

The course will be given at the Boston Lying-in Hospital and at the Medical School. During the first half of the course the student will lodge at the Hospital, and devote his time chiefly to attendance on cases in the out-patient clinic; he will also be called upon to assist at operations, and, when his other duties permit, to make ward visits with the physician on duty. In the second half of the course he will conduct the convalescence of the cases delivered by him during his resident service, write full reports of his cases, and make daily ward visits, receiving clinical instruction on house patients, and witnessing operations. In his clinical work he will have the supervision and instruction of the Department and of the Hospital Staff on duty. In the second half of his course he will also be given, at the Medical School, a course of demonstrations in operative obstetrics, and each student will practise the various operations on the manikin.

(2) *Gynaecology.* Half-courses, forenoons, throughout the year.

The courses will be given by Professor GREEN (Oct. to Jan.) and Assistant Professor NEWELL (Feb. to May), assisted by Drs. YOUNG, FRIEDMAN, and MASON, in the wards and out-patient department of the Gynaecological Service at the Boston City Hospital, which affords ample material for a comprehensive study of gynaecology, from the simpler lesions requiring only minor local treatment or the various plastic operations, to the major cases treated by capital operation. Students will be given opportunity to educate the touch, and will be instructed in diagnosis and in the methods of minor treatment. The various operations, major and minor, will be demonstrated, and opportunity given to study convalescence and post-operative treatment. Students will also be expected to study, and report on, pathological specimens removed by operation, under the supervision of Professor MALLORY.

Cases will be assigned for history-taking, examination, diagnosis, with notes on operation and subsequent treatment. As far as possible students will be expected to assist in clinical work.

DERMATOLOGY AND SYPHILIS. Half-courses, forenoons, throughout the year.

Instruction in clinical dermatology will be given at the Massachusetts General Hospital, both in the out-patient department and in the ward for skin diseases. Instruction will also be given in the histology and pathology of the skin, with training in the preparation of microscopical preparations and in histological technique.

NEUROLOGY AND PSYCHIATRY. Half-courses, forenoons, throughout year.

The design of these courses is to continue the work of the third year in its practical relations. The aim will be to give the student an opportunity for the independent study of cases. To this end the following methods of instruction in general will be adopted: —

The instruction in neurology will be as follows: —

(1) Daily systematic conferences on neurological topics.

(2) History-taking, and personal examination of patients at the out-patient departments of the Massachusetts General and Boston City Hospitals.

(3) Assistance in the clinic, both in the general examination of patients and in treatment, especially by means of electricity.

(4) The detailed preparation of reports bearing on the subjects studied, and such original investigation as the time permits. A study of the literature bearing on special topics apart from text-books is urgently advised.

(5) Visits will also be made to institutions in the neighborhood of Boston as opportunity offers, *e. g.*, Massachusetts School for Feeble-Minded, Long Island Hospital, Boston Harbor.

In the final marking much account will be taken of the daily practical work of the student.

The instruction in psychiatry will be as follows: —

(1) A conference, one evening each week, for the review and further study of the cases seen at the clinics and of other cases, and for the discussion of special subjects.

(2) Clinical instruction at the McLean Hospital one forenoon in each week. This will include attendance at the regular conferences of the Medical Staff at which there is a careful discussion of every case on its admission to the Hospital, with the study of its history, diagnosis, prognosis, and treatment. This exercise will be followed by a visit to the wards and the examination, as far as practicable, of the cases discussed at the conferences and of other selected cases.

(3) Clinical instruction at the Boston Insane Hospital one forenoon in each week, including clinical demonstrations, and the individual study of especially assigned cases, which will also be reported and discussed at the regular evening conferences.

This course in psychiatry is open to a limited number of students, and may be taken independently of that in neurology. Several exercises will be held in common by those electing psychiatry and neuropathology.

Ophthalmology. Half-courses, forenoons, second half-year.

The work will consist of personal instruction in the use of the ophthalmoscope and other instruments of precision. An opportunity will be given to work in the out-patient department of the Massachusetts Charitable Eye and Ear Infirmary and to observe and study cases in the wards. In addition there will be instruction in ophthalmic operations with opportunity to witness their exemplification in the operative work of the hospital.

Otology. Half-courses, forenoons, throughout the year.

For men who elect but one half-course, the work will consist chiefly of clinical training and instruction, hearing tests, and objective examinations and manipulations in the out-patient, house, and operating services of the Massachusetts Charitable Eye and Ear Infirmary.

For men especially interested in Otology, who wish to devote all their time to the subject, a thorough course of instruction has been planned embracing the anatomy, physiology, and pathology of the ear, in addition to thorough clinical instruction.

In connection with the clinical courses in Ophthalmology, Otology, and Laryngology, an afternoon half-course, at the Medical School, is offered by each of the following departments: Comparative Anatomy (October and November), Physiology (December and January), Pathology (February and March), and Anatomy (April and May).

LARYNGOLOGY. Half-courses, forenoons, throughout the year.

The forenoon half-courses are held daily at the Massachusetts General Hospital, and are chiefly clinical in character. In addition to the routine work of the clinic, instruction will be given in diagnosis, treatment, and applied anatomy and pathology, as well as an opportunity to assist at operations. Each student is required to follow and report on some special selected subject.

In connection with the clinical courses in Ophthalmology, Otology, and Laryngology, an afternoon half-course, at the Medical School, is offered by each of the following departments: Comparative Anatomy (October and November), Physiology (December and January), Pathology (February and March), and Anatomy (April and May).

A FULL YEAR'S COURSE IN OPHTHALMOLOGY, OTOLOGY, AND LARYNGOLOGY, by the Departments of Ophthalmology, Otology, Laryngology, Anatomy, Physiology, Pathology, and Comparative Anatomy.

Graduates, by choosing fourth-year electives, can devote an entire year to ophthalmology, otology, and laryngology, including the embryology, physiology, pathology, and anatomy of the eye, ear, throat, and related structures. The following arrangement has proved successful: —

	Oct. Nov.	Dec. Jan.	Feb. Mar.	Apr. May
A.M.	Otology or Laryngology	Laryngology or Otology	Ophthalmology	
P.M.	Embryology	Physiology	Pathology	Anatomy

Students not desiring ophthalmology can elect courses in otology, or laryngology, which will fill the forenoons of the entire year in combination with the afternoon laboratory courses suggested above.

EXAMINATIONS.

The final examination in every required subject is held at the close either of the first or of the second half of the school year. The examination, therefore, in every subject occurs once a year, but an opportunity to make up failures in examinations is offered at the opening of the school year. The *Mid-Year* and *June examinations* are for those only who are members of the School at the time, and for those entitled to apply for the degree. The *September examination* is for those only who have been examined previously and have failed in the subject of the examination, or for applicants for advanced standing. In some subjects a portion of the examination consists of practical work in the laboratory.

The exercises of the third year are omitted during the mid-year examinations.

The amount of time credited to each examination is as follows: —

First Year. — Anatomy * (3 hrs.), Histology and Embryology* (3 hrs.), Physiology (3 hrs.), Biological Chemistry (3 hrs.).

Second Year. — Bacteriology * (1 hr.), Pathology * (2 hrs. written, 1 hr. practical), Hygiene (1 hr.).

Third Year. — Materia Medica and Therapeutics * (2 hrs.), Theory and Practice * (3 hrs.), Clinical Medicine (3 hrs.), Pediatrics (2 hrs.), Surgery * (2 hrs. written, 1 hr. practical, as follows: Surgery, 15 min.; Orthopedic Surgery, 15 min.; Surgical Technique, 15 min.; Surgical Pathology, 15 min., taken in second year), Clinical Surgery (1 hr. written, 1 hr. practical, as follows: Clinical Surgery, 45 min.; Genito-Urinary Surgery, 15 min.), Obstetrics (3 hrs.), Gynaecology (1 hr.), Dermatology (1 hr.), Syphilis (1 hr.), Neurology (1 hr.), Psychiatry (1 hr.), Ophthalmology * (1 hr.), Otology (1 hr.), Laryngology (1 hr.).

Fourth Year. — The nature of the examinations is determined by each department. The student's credit is based on his daily written record of work, and on a practical or written examination at the end of each course, or on all combined.

In addition to the above examinations every student is required: —

To dissect the three parts of the body to the satisfaction of the demonstrator;

To receive practical instruction in anaesthesia;

To present a certificate that he has satisfactorily served as a surgical dresser in the surgical out-patient department of the Massachusetts General Hospital or Boston City Hospital for at least one month after taking the course in surgical technique in the second half of the second year;

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* The examinations in these subjects are held at the end of the first half-year.

To take charge of and report on six cases in Obstetrics, and to receive instruction on at least one of them;

To furnish satisfactory evidence of having engaged in the practical exercises in Theory and Practice.

No student is allowed to anticipate the examinations in the regular course of studies of his year, except by special permission of the Faculty.

After two failures to pass in any subject, a student must give notice twenty-four hours in advance, at the Dean's office, of his intention to take each subsequent examination in that subject, and pay a charge of three dollars.

DEGREES.

Degree of Doctor of Medicine.

Every candidate for the degree of DOCTOR OF MEDICINE at this University must be at least twenty-one years of age, and of good moral character. He must fulfil all the requirements for admission to this Medical School; must give evidence of having studied in a recognized Medical School at least four full years, of which one year must be spent at this School; must pass all the required examinations, and fulfil satisfactorily the special requirements enumerated above.

The degree of Doctor of Medicine will be given to those candidates who fulfil the above requirements. The degree of Doctor of Medicine *cum laude* will be given to candidates who have obtained an average of eighty per cent., or over, in all the required examinations.

Candidates for the degree must make application for it in writing, on blanks furnished at the Dean's office, on or before *May 1* of the year in which they propose to graduate.

Candidates for the degree of Doctor of Medicine are not required to present a thesis; but they may present a voluntary thesis which, if of conspicuous merit, may receive honorable mention; if the thesis is also of a suitable character, it may be read at the Commencement exercises. Theses must be completed and delivered to the Dean on or before *the first day of May*.

A graduate of another Medical School of recognized standing may obtain the degree of Doctor of Medicine at this University by fulfilling all the requirements for undergraduates above mentioned, but he may take the examination in any subject only at the times when regularly it is held, that is, in September, at the mid-year, or in June.

Degree of Master of Arts.

The degree of MASTER OF ARTS is open to graduates of the Harvard Medical School who are also Bachelors of Arts of Harvard College, and to Bachelors of Arts of other Colleges who shall be recommended by the Faculty of Arts and Sciences of Harvard College. Candidates must pursue an approved course of study in Medicine for at least one year after taking the degree of Doctor of Medicine. Applications for approval of the course of study offered for this degree must be made to the Administrative Board of the Graduate School of Arts and Sciences on or before the *fifteenth day of January*.

FEES AND EXPENSES.

The fees are:—For matriculation, *five dollars;* for instruction, *two hundred dollars* for each year (if in two payments, at the first, one hundred and twenty dollars; at the second, eighty dollars); for a half-year alone, *one hundred and twenty dollars.* During the first year there are the following additional expenses: two dollars for each of the three parts required for dissection; three dollars for laboratory materials in Histology; three dollars for physiological material; and a maximum of ten dollars a year for chemical material, in addition to the charge for breakage of glass apparatus. Students are required to deposit with the Bursar* six dollars to cover Anatomy charges, three dollars for Histology, and twenty dollars for Chemistry and Physiology. The balances of these deposits are returnable at the end of the year. In the second year three dollars will be charged for the course in Surgical Technique; and a deposit of five dollars is required to cover breakage in the course in Clinical Pathology, the balance of this deposit to be returnable at the end of the year. In the fourth year a charge of three dollars is made for material used in the course in Operative Surgery. A deposit of two dollars with the Dean will entitle a student to the use of a locker in the School buildings. A student who wishes to rent a microscope of the School can do so upon payment of three to six dollars a half-year. There is a graduation fee of twenty dollars for the degree of A.M.

Not later than October 10 in each academic year, any student may pay to the Bursar the sum of four dollars for the maintenance of the Stillman Infirmary; and, on the order of a physician, every student who has taken advantage of this opportunity will be given, in case of sickness, in return for the fee, a bed in a ward, board, and ordinary nursing for a period not exceeding two weeks in any one academic year.

Payment of Fees.

Each first-year student is required to pay to the Bursar punctually at the beginning of the academic year, without the presentation of a bill, the sum of *one hundred and fifty-four dollars; each second-year student* is required to pay in the same manner *one hundred and twenty-eight dollars;* and *all other students* are required to pay, in the same manner, the sum of *one hundred and twenty dollars.* Fourth-year students electing Surgery are required to pay a charge of three dollars for material in Operative Surgery. The remainder of the tuition fee — *eighty dollars* each for all students — must be paid to the Bursar on or before January 31. No degree can be conferred until all dues to the University have been discharged. Each student whose dues remain unpaid on the day fixed for their payment is required at once to cease attending lectures and using laboratories or making use of any other privileges as a student until his financial relations with the University have been arranged satisfactorily to the Bursar. Failure to comply with this rule is deemed cause for final separation from the University.

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* The Bursar's office is in Dane Hall, Harvard Sq., Cambridge. Hours 9–1.

Every student is required to file with the Bursar on his entrance to the School a bond of *fifty dollars*, executed by two sufficient bondsmen (one of whom must be a citizen of the United States), or to deposit fifty dollars in money, to cover the loss or injury of any property belonging to the University, or for which it is responsible. Blank forms of bonds may be obtained from the Secretary of the Faculty or from the Bursar. No officer or student of the University is accepted as a bondsman. Students will be held responsible for the payment of fees until they have notified the Dean, in writing, of their intention to withdraw from the School.

Whenever a student is obliged to withdraw from the School before the last four weeks of a half-year for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the Administrative Board, it shall be recommended that he be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction. This remission will date from the reception by the Dean of a written notice of the student's withdrawal from the School. No degree will be conferred till all dues to the School are discharged.

The student's general expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. A list of boarding places at various prices can be obtained at the rooms of the Young Men's Christian Association, corner of Berkeley and Boylston Streets, and the rooms of the Young Men's Christian Union, No. 48 Boylston Street, Boston.

CLINICAL ADVANTAGES.

The Medical Department of the University is established in Boston, in order to secure for Anatomy, Pathology, and the various Clinical Subjects those advantages which are found only in large cities.

There are Hospital visits or operations daily.

The Massachusetts General Hospital. — During the past year, more than fifty-seven hundred patients were treated in the wards, and over twenty thousand in the out-patient departments. Patients are received from all parts of the United States and the Provinces, and are visited by the students, with the attending physicians and surgeons, on four days in the week. Operations are numerous, and are performed in the amphitheatre, which is provided with seats for 400 persons. Clinics in the following special branches have been established in connection with the out-patient department: Dermatology, Laryngology, and Diseases of the Nervous System. The Dalton scholarship of $500 is open to the house pupils.

The Boston City Hospital. — During the past year, over nine thousand cases were treated in its wards, and over thirty-eight thousand in its various out-patient departments. The medical wards always contain many cases of acute diseases, and changes are taking place constantly. The opportunities for seeing fractures, injuries, and traumatic cases of all kinds are excellent, since, on an average, eight hundred street accidents are treated yearly. Surgical operations are performed in the amphitheatre. There are special services for diseases of women, of the eye, the ear, the skin, and the nose and throat. Diseases of women and of the nervous system are also largely treated in the out-patient department. Clinical instruction is given by the physicians and surgeons two or more times a week.

In these two hospitals, the facilities for witnessing Operative Surgery are unsurpassed. Twice a week operations are performed in the presence of the class. The number of these operations is large, reaching nearly two thousand a year. The variety is great, embracing every surgical disease and injury, including the surgical operations on the eye and ear.

The Boston Lying-in Hospital. — More than seven hundred patients were delivered during the last year in the Hospital. In the out-patient department, more than two thousand cases were attended by the hospital Externes, who are appointed from the third and fourth-year students. Clinical instruction is given in these cases by the physicians to out-patients and by the house physicians.

The Boston Dispensary. — More than forty thousand patients were treated at this public charity during the past year. Students have ample and excellent opportunity for seeing practical work in the diagnosis and treatment of cases illustrating the various branches of Medicine and Surgery.

The Infants' Hospital. — The wards of the Hospital are devoted entirely to children under two years of age. About three thousand children of all ages are treated annually in the out-patient department. The material of the Hospital is used throughout the year for teaching both students and graduates.

Children's Hospital. — During the past year more than seven hundred cases were treated in the wards and about seventy-six hundred in the out-patient departments. Instruction in orthopedic surgery and in the general diseases of children is given by members of the hospital staff.

The McLean Hospital. — During the past year two hundred and five patients, received from all parts of the country, were under treatment. Advanced methods of treatment are employed, including physical exercise, massage, hydrotherapy, etc., applied by persons expert in these methods. In the laboratories, — pathological, chemical, and physiological, with psychological methods, — work is carried on in immediate connection with the clinical studies and treatment of cases. There is a good special library of works in psychiatry and neurology, and a large list of American and foreign journals available for study. Clinical conferences are regularly held by the Medical Staff for the discussion of all cases admitted, including a study of the history, diagnosis, prognosis, and treatment of each case. These exercises and clinical demonstrations in the wards are available for a limited number of students.

The Boston Insane Hospital. — During the past year one thousand and eighty-seven patients were under treatment. Clinical instruction is given here in general clinics to medical students, and there are in addition facilities for the special study of cases by students taking elective courses. Emergency cases are received; the whole number of patients admitted last year was four hundred and sixteen, including many instructive examples of the various forms of mental disease.

The Massachusetts Charitable Eye and Ear Infirmary. — Over thirty thousand patients were treated at this institution during the past year. These cases present every variety of disease of the ear and eye, and supply a large number of operations. A new and enlarged hospital, considered to be one of the best of its kind in the world, has been erected on land adjoining the Massachusetts General Hospital. It is believed that this building will provide adequately for the proper treatment of the constantly increasing number of patients.

Long Island Hospital, Boston Harbor. — This Hospital is designed particularly for the treatment of chronic diseases. It has two hundred and fifty beds, with an average daily number of patients of about two hundred and thirty. It has marked advantages for the study of syphilis, tuberculosis, diseases of the nervous system, and chronic diseases of the heart and of the kidneys. The number of autopsies is annually about 50 per cent. of the deaths, a fact which affords an unusual opportunity for the study of pathological anatomy. The material in the Hospital is used for clinical instruction by the members of the Visiting Staff.

The Carney Hospital. — During the past year there were treated at this hospital about nine hundred ward patients and nearly four thousand new out-patients in the surgical service; over six hundred ward patients and more than three thousand new out-patients in the medical service; two hundred operative ward patients and twelve hundred new out-patients in the orthopedic service; and one hundred operative ward cases and ten thousand out-patients in the ophthalmic service. More than eight hundred cases, covering a large variety of diseases, were operated on by the surgical service. The surgical, medical, and orthopedic services are under the direction of single heads with continuous service, who with assistants manage both the house and out-patient departments.

Clinical instruction will be given in connection with the surgical, medical, orthopedic, and ophthalmic services, and opportunity will be afforded for a limited number of qualified men to engage in clinical investigation under the direction of the heads of services and their assistants. The orthopedic clinic offers special opportunities for the study of chronic joint affections in the adult.

Students are also permitted to visit the Free Hospital for Women on application to the physicians on duty.

There are more than sixty appointments annually for Internes in the various hospitals, and nearly as many more for Assistants in the out-patient departments. Appointments for the Massachusetts General and Boston City Hospitals are for terms of one to two years (according to the service chosen); for the Boston Lying-in Hospital for six months; and for the Free Hospital for Women for nine months.

WARREN ANATOMICAL MUSEUM.

The Warren Anatomical Museum was founded in 1847 by John Collins Warren, of the College Class of 1797, Adjunct Professor of Anatomy and Surgery from 1809 to 1815, Hersey Professor of Anatomy and Surgery from 1815 to 1847, Professor *Emeritus* from 1847 to his death in 1856, son to John Warren, the first Hersey Professor of Anatomy and Surgery. This important Museum is open to students in the School, and its collections are used in demonstration of the lectures. It occupies the upper three floors of the Administration Building. Its Curator is Dr. William Fiske Whitney.

The collection has about nine thousand specimens, illustrating both normal and pathological anatomy and materia medica. Students may have access to these specimens at any time upon application to the Curator.

Besides dissections and serial sections of many bones, the anatomical collection includes many corrosion preparations, plaster and papier maché models of bones, organs, and various parts of the body, and frozen sections.

The pathological collection is being constantly enlarged by the addition of numerous specimens, preserved in their natural colors by Kaiserling's method.

LIBRARIES.

Medical School students who are engaged in research work may have access to the special libraries of the various departments on application to the persons in charge. These libraries are seven in number, consisting of three large combined departmental libraries in buildings *B*, *C*, and *D*, and of four small separate departmental libraries in building *E*. The total number of books in all the libraries is 12,788, and of pamphlets 23,820. In addition 306 medical journals and society publications are taken, of which a few, however, are duplicates. The students have a small general medical library for their own use in their reading room in the Administration Building.

The College Library at Cambridge is open to the students of this School.

The Boston Public Library is open to students who are inhabitants of Boston. Students, not inhabitants of Boston, who have filed a bond at the Bursar's office, or deposited with the Bursar the sum of fifty dollars, may also use this library. The Bursar will furnish on application the necessary certificate of bond or deposit.

The Boston Medical Library, No. 8 The Fenway, contains about 60,000 bound volumes and 35,000 pamphlets, and nearly 700 current periodicals are on file. This very valuable Library is open to those who desire to consult medical literature, on week days from 9.30 A.M. to 10 P.M., on Saturdays till 6 P.M.

FELLOWSHIPS AND SCHOLARSHIPS.

FELLOWSHIPS.

BULLARD FELLOWSHIPS. In 1891, WILLIAM STORY BULLARD, of Boston, gave the sum of fifteen thousand dollars for the establishment of three fellowships of five thousand dollars each "in memory of three physicians who were distinguished for their honorable personal character and for their professional services in this community." Accordingly the three following fellowships were established with a yearly income of two hundred and twenty-five dollars each: —

THE GEORGE CHEYNE SHATTUCK MEMORIAL FELLOWSHIP.
THE JOHN WARE MEMORIAL FELLOWSHIP.
THE CHARLES ELIOT WARE MEMORIAL FELLOWSHIP.

The income from any one or all of these fellowships may be paid to any student or member of the medical profession who shall be selected by the Administrative Board of the Medical School to make such original investigations in Medical Science as in their opinion will be most useful to the profession and to the community. The results of such investigations shall not, however, be published as a research performed under the grant of a Bullard Fellowship, unless the work shall have received the approval of the Committee. If published with the approval of the Committee, mention shall be made of the fact that the work was done under a Bullard Fellowship.

Holders of Bullard Fellowships are required to do an amount of work equivalent to not less than ten hours a week throughout the academic year and to present to the Committee at the end of the academic year a report on the amount and result of the work performed.

Applications for the Bullard Fellowships must be handed to the Dean on or before October 1.

Austin Fellowships. In 1900, four teaching fellowships, of five hundred dollars each, were established from the income of the Austin Fund.

Proctor Fund. A bequest of fifty thousand dollars by Ellen Osborne Proctor for the purpose of promoting the study of chronic diseases. The income of this fund is to be devoted to the care in hospital of persons afflicted with chronic disease, and to investigations into the nature and treatment of the same. The special disposition of the income of this fund is under the control of the heads of the departments of Theory and Practice of Physic, Clinical Medicine, and Pathology.

Scholarships.

The Cheever Scholarship is awarded to a student of the first-year class. The Hayden Scholarship may be so awarded. All the other Scholarships are awarded to members of the three upper classes.

Barringer Scholarships. Two, known as the Edward M. Barringer Scholarship No. 1, and the Edward M. Barringer Scholarship No. 2, and having a yearly income of three hundred dollars and two hundred dollars respectively, from a bequest of Edward M. Barringer, will be awarded to deserving students, preferably those of the fourth class.

The James Jackson Cabot Scholarship. In 1906, Arthur T. Cabot, Samuel Cabot, and Guy C. Cabot gave six thousand dollars to establish the James Jackson Cabot Fund in the Medical School. The income remaining after adding a certain percentage to the principal each year is preferably, but not necessarily, to be used for a scholarship "to aid and encourage practical work in scientific medicine."

David Williams Cheever Scholarship, with an income of two hundred and fifty dollars, was founded in 1889 by David Williams

Cheever, M.D., LL.D., of Boston, of the Class of 1852. It is to be awarded to a poor and meritorious student of the first year, after three months' probation in the Medical School.

ISAAC SWEETSER SCHOLARSHIP was founded in 1892 by Mrs. Anne M. Sweetser. The income of two hundred and fifty dollars is to be "devoted to the aid of poor students of ability who would not otherwise be able to continue the studies necessary for their profession."

CLAUDIUS M. JONES SCHOLARSHIP, with an income of two hundred and fifty dollars, is from a bequest of six thousand dollars by Claudius Marcellus Jones, of the Class of 1866, M.D. 1875.

ORLANDO W. DOE SCHOLARSHIP. The bequest of ORLANDO WITHERSPOON DOE (A.B. 1865, M.D. 1869) was five thousand dollars. One-half of the income derived therefrom, amounting to one hundred dollars, "is to be given annually as a scholarship to a deserving student in the Medical department."

CHARLES PRATT STRONG SCHOLARSHIP, with an income of two hundred dollars, was founded in 1894 by friends and patients of the late Charles Pratt Strong, of the Class of 1876, M.D. 1881.

The LEWIS AND HARRIET HAYDEN SCHOLARSHIP for colored students was founded in 1894 from a bequest of Mrs. Harriet Hayden. The income is two hundred and twenty-five dollars.

ALFRED HOSMER LINDER SCHOLARSHIP, with an income of two hundred dollars, was founded in 1895 by Mrs. George Linder. It is to be awarded to a needy student who shall have proven himself to be of sound principles and marked ability.

JOSEPH EVELETH SCHOLARSHIPS. Three Scholarships with an annual income of two hundred dollars each. Founded from the residuary bequest of thirty-seven thousand eight hundred and ninety-seven dollars and fourteen cents, made by Joseph Eveleth, of Boston, "for aiding deserving and indigent young men in obtaining an education in said College or any of the schools connected therewith." Three Scholarships on this foundation have been assigned to the Harvard Medical School.

EDWARD WIGGLESWORTH SCHOLARSHIP, with an income of two hundred dollars, was founded in 1897 by the family of the late Edward Wigglesworth, of the Class of 1861, M.D. 1865, the yearly income of the fund to be paid to a needy and deserving student of the Medical School whom the Administrative Board shall recommend.

HILTON SCHOLARSHIPS. Two Scholarships with an income of two hundred and twenty-five dollars each were founded in 1897 from a bequest of William Hilton.

Charles B. Porter Scholarship, with an income of two hundred and twenty-five dollars, was founded in 1897 from a bequest of five thousand dollars by William L. Chase.

The John Thomson Taylor Scholarship, with an income of two hundred dollars, was founded in 1899 by Mrs. Frederic D. Philips in memory of her brother, John Thomson Taylor, who died in 1889. He was a student of the Medical School from 1887 to 1889.

Lucius F. Billings Scholarship, with an income of two hundred dollars, was founded in 1900 from a bequest under the will of Lucius F. Billings.

The Joseph Pearson Oliver Scholarship, with an income of three hundred and twenty-five dollars, was founded in 1904 by patients of the late Joseph Pearson Oliver, M.D. (Harvard 1871), to be awarded "to such needy and deserving student of the Medical School as the Administrative Board shall annually recommend."

Francis Skinner Fund. A fund of five thousand dollars, the gift of an unknown donor, was established in 1905, the income of which shall be placed at the disposal of the Dean of the Medical School to be used by him in small sums to meet the urgent needs of meritorious students in the payment of term-bills or other expenses.

Cotting Gift. The income of a fund received from the late Dr. Benjamin E. Cotting will be given to such medical student or students as the Administrative Board may select, having regard to the pecuniary needs, intellectual capacity, faithfulness and earnest endeavor, rather than to highest scholarship merely. The amount to be awarded annually will be one hundred and twenty-five dollars.

The income of the John Foster Fund, amounting to about one hundred and fifty dollars, is payable every other year to one or more meritorious students needing assistance. The next payment will be made in 1910.

These scholarships and gratuities are awarded to such men among those applying for and needing assistance as give evidence of having done the best work either in this School or in a preparatory course elsewhere.

Students who have not been able to obtain scholarships often find time and opportunity to do outside work of various kinds in the city.

All applications for scholarships or pecuniary aid, except for the Cheever and Hayden Scholarships, must be handed to the Dean on or before *June 1.*

Applications for the Cheever and Hayden Scholarships must be handed to the Dean on or before *November 30.* These scholarships are open only to students who are members of the school at the time of application.

Blank forms, on which all applications for pecuniary aid must be made, may be obtained of the Dean.

PRIZES

Boylston Medical Prizes. — These prizes, which are *open to public competition*, are offered annually for the best dissertations on questions in medical science proposed by the Boylston Medical Committee.

At the annual meeting held in Boston in 1908 a prize was awarded to James Homer Wright, M.D., S.D., for an essay entitled "The Histogenesis of the Blood-platelets."

For 1909 two prizes are offered: —

1. A prize of seventy-five dollars for the best dissertation on *The results of Original Work in Anatomy, Physiology, or Physiological Chemistry.* The subject to be chosen by the writer.

2. A prize of seventy-five dollars for the best dissertation on *The results of Original Investigations in Pathology, Bacteriology, Therapeutics, or Pharmacology.* The subject to be chosen by the writer.

Dissertations on these subjects must be sent to the same address as below on or before *January 1, 1909.*

For 1910 two prizes are offered: —

1. A prize of seventy-five dollars for the best dissertation on *The results of Original Work in Anatomy, Physiology, or Physiological Chemistry.* The subject to be chosen by the writer.

2. A prize of seventy-five dollars for the best dissertation on *The results of Original Investigations in Pathology, Bacteriology, Therapeutics, or Pharmacology.* The subject to be chosen by the writer.

Dissertations on these subjects must be sent post-paid to H. C. Ernst, M.D., Harvard Medical School, Boston, Mass., on or before *January 1, 1910.*

In awarding these prizes preference will be given to dissertations which exhibit original work, but if no dissertation is considered worthy of a prize, the award may be withheld.

Each dissertation must bear in place of its author's name some sentence or device, and must be accompanied by a sealed packet bearing the same sentence or device, and containing within the author's name and residence. *Any clew by which the authorship of a dissertation is made known to the Committee will debar such dissertation from competition.*

Dissertations must be printed or typewritten, and their pages must be bound in book form.

All unsuccessful dissertations are deposited with the Secretary, from whom they may be obtained, with the sealed packet unopened, if called for within one year after they have been received.

By an order adopted in 1826, the Secretary was directed to publish annually the following votes: —

1. That the Board do not consider themselves as approving the doctrines contained in any of the dissertations to which premiums may be adjudged.

2. That in case of publication of a successful dissertation, the author be considered as bound to print the above vote in connection therewith.

The Boylston Medical Committee is appointed by the President and Fellows, and consists of the following physicians: William F. Whitney, M.D., *President;* Harold C. Ernst, M.D., *Secretary;* Franz Pfaff, M.D., Theobald Smith, M.D., William T. Porter, M.D., Edward H. Nichols, M.D.

The address of the *Secretary* of the Boylston Medical Committee is Harold C. Ernst, M.D., Harvard Medical School, Boston, Mass.

William H. Thorndike Prize. — A prize of two hundred dollars will be given annually to the author of the best essay on some subject in any branch of Surgery.

The students of the Harvard Medical School and graduates of under five years' standing of any recognized medical school are eligible in competition for this prize.

Each essay must bear in place of its author's name some sentence or device, and must be accompanied by a sealed packet bearing the same sentence or device, and containing within the author's name and residence. If the author is a graduate, it must also contain the date of his graduation in medicine and the medical school from which he was graduated. Any clew by which the authorship of an essay is made known to the judges will debar such essay from the competition.

The essays must be sent to the Dean of the Harvard Medical School, Longwood Avenue, Boston, Mass., U. S. America, on or before November 1 of each year, and the award will be made annually on December 24. If no essay is considered worthy of a prize, no award will be made.

Otological Prize. — For the best preparation illustrating the osseous anatomy of the ear or for the best thesis showing original work on an otological subject, a prize of twenty-five dollars is offered, open to fourth-year students.

Other Prizes.—The Bowdoin, Dante, Sumner and Toppan Prizes, offered by the Faculty of Arts and Sciences, are open to students in all departments of the University. Full particulars in regard to these prizes may be found in the University Catalogue.

COURSES FOR SPECIAL STUDENTS.

All courses, including laboratory courses, in the Harvard Medical School are open to persons not candidates for the degree of Doctor of Medicine; that is to say, to special students and to students in other Departments of the University. In order to be admitted to a course, the applicant must satisfy the head of the Department concerned of his fitness to pursue the work.

In addition, certain Departments offer courses, not a part of the regular curriculum, but specifically designed for special students; as follows:—

ANATOMY. Professor DWIGHT, Assistant Professor J. WARREN, and Assistants.

(1) Course for artists, teachers, and others. (Essentially the regular first-year course with dissection.)

(2) Special instruction and opportunities for research.

PHYSIOLOGY. Professor CANNON.

Physiological Research.

COMPARATIVE PHYSIOLOGY. Professor PORTER.

Physiological Research.

BIOLOGICAL CHEMISTRY. Professor FOLIN, and Drs. ALSBERG and HENDERSON.

Biochemical Research.

PHARMACOLOGY. Professor PFAFF and Dr. TYRODE.

Pharmacological Research.

BACTERIOLOGY. Professor ERNST, and Drs. FROTHINGHAM and PAGE.

(1) Elementary courses beginning at other times than October 1 and February 1, for groups of not fewer than four students.

(2) Advanced instruction to groups of not fewer than four students.

(3) Research course for advanced students. Desks will be assigned at any time.

CLINICAL PATHOLOGY. Assistant Professor WRIGHT.

(1) Research in bacteriology and pathology.

(2) Instruction in bacteriological and pathological technique and in diagnosis by laboratory methods.

(3) Weekly demonstrations in pathological anatomy in conjunction with Assistant Professor RICHARD C. CABOT, who will discuss the clinical aspects of the cases.

COMPARATIVE PATHOLOGY. Professor THEOBALD SMITH.

Research. Problems in experimental and comparative pathology with special reference to infectious and parasitic diseases.

HYGIENE. —— —— and Dr. MAGRATH.

(1) Analysis of water and sewage.
(2) Analysis of foods and the detection of adulterants.
(3) Analysis of air and soils.
(4) Inspection of meats and other foods.
(5) Examination of disinfectants.
(6) Research.

SURGERY. Professor BURRELL and Dr. HUBBARD.

(1) Special courses in surgical technique.
(2) Research.

These courses will be given in the Laboratory for Surgical Research that has been recently established under the direction of Professor BURRELL and Dr. HUBBARD. Application may be made to either of those gentlemen. The laboratory is equipped with the necessary apparatus for surgical operations on animals and special courses of an elementary character in the technique of operation can be provided, or opportunity for research work on surgical problems may be given to persons who are satisfactorily qualified.

HOURS AND FEES.

Applicants for the above courses should make arrangements as to time and fees with the respective heads of departments. They should then register and pay their fees at the Dean's office.

COURSES OF STUDY FOR GRADUATES.

The Faculty has arranged, for graduates of recognized medical schools, an improved plan of instruction, embracing nearly all the branches of practical and scientific medicine. It is designed to supply good opportunities for clinical and laboratory study.

The laboratories of the School are well equipped for practical work, and the clinical advantages offered by the hospitals of Boston furnish abundant material for all purposes of instruction. The following are the principal institutions:—

Massachusetts General Hospital,
Boston City Hospital,
Boston Dispensary,
Massachusetts Eye and Ear Infirmary,
Boston Lying-in Hospital,
Infants' Hospital,
Children's Hospital,
McLean Hospital (for the Insane),
Boston Insane Hospital,
Carney Hospital,
Free Hospital for Women.

Instructors in the Medical School are members of the medical and surgical staffs of these institutions, to all of which students are admitted under their immediate supervision.

Instruction in the graduate courses is, with but few exceptions, entirely distinct from that of the undergraduate department of the School; but students of the former are admitted also to all the regular lectures (not clinical) of the latter, without extra charge, during their connection with the School.

Instruction is conducted in small classes and under the personal direction of the heads of departments.

Instruction is given throughout the academic year, October to June.

FEES.

The fees for the separate courses in the several departments vary from $5 to $125.

An extra fee is required for the use of material in laboratory, dissecting, and operative courses.

Graduates seeking admission to any of the graduate courses must first register their names at the Dean's office at the Medical School, where all fees are payable, and obtain a receipt to be shown at the first exercise.

For further information and full description of the courses and lectures for graduates, address the *Dean*, Harvard Medical School, Longwood Avenue, Boston, Mass.

SUMMER COURSES OF INSTRUCTION.

During the summer of 1909, courses in many branches of practical and scientific medicine will be given by teachers in the School. These courses will be clinical in character and will be given at the Hospitals and Dispensaries by the physicians and surgeons on duty. Practical instruction will also be given in several of the Laboratories of the School by the instructors in charge. These courses are open only to graduate and undergraduate students of medical schools recognized by the Faculty of Medicine, and to such others as the Dean of the Faculty approves.

A list of the Summer Courses will be announced early in the Spring. For further information address the *Dean*, Harvard Medical School, Longwood Avenue, Boston, Mass.

COURSES PROVIDED IN THE GRADUATE SCHOOL FOR 1908–09.

The following are the Courses provided in the Graduate Department for 1908–09.

SUBJECT.	INSTRUCTOR.	PLACE.	No. of Exercises.	TIME.*	FEE.
Anatomy					
1. Special Anatomy Instruction	Prof. Dwight	Medical School	. .	Special	Special.
2. Anatomy of the Joints	Prof. Dwight	Medical School	12	Special	$25.
3. Topographical and Applied Anat.	Asst. Prof. Warren	Medical School	12	Special	25.
4. Dissection Courses	Dr. Cheever	Medical School	. .	Feb., Mar., April	15–30.
5. Anatomy of Nose and Throat	Dr. Mosher	Medical School	12	Special	25.
6. Genito-Urinary Anatomy, Male	Dr. Flagg	Medical School	5	After Feb. 1	25.
7. Surgical Anatomy of Abdomen	Dr. Cheever	Medical School	6–8	Feb., Mar., April	25.
Comparative Anatomy					
8. Comparative Anatomy 1		Medical School	. .	Special	30.
9. Comparative Anatomy 2		Medical School	. .	Oct., Nov.	30.
Physiology					
10. Detailed Study in Physiology	Prof. Cannon	Medical School	43	Oct. to May	Special.
11. Investigation in Physiology	Prof. Cannon	Medical School	43	Oct. to May	Special.
Comparative Physiology					
12. Experimental Work in Physiology	Prof. Porter	Medical School	. .	Oct. to May	Special.
Biological Chemistry					
†13. Advanced Biological Chemistry	Prof. Folin and Drs. Alsberg and Henderson	Medical School	. .	Special	Special.
†14. Biochemical Methods	Prof. Folin and Drs. Alsberg and Henderson	Medical School	. .	Special	Special.

†15. Research in Biological Chemistry	Prof. Folin and Drs. Alsberg and Henderson	Medical School	. .	Special	Special.
Bacteriology					
†16. Research and General Laboratory Work in Bacteriology	Prof. Ernst	Medical School	. .	Special	25.
Pathology					
17. Research and General Laboratory Work in Pathology	Profs. Councilman, Mallory, and Wright	Med. Sch., Boston City & Mass. General Hosps.	. .	Special	Special.
18. Fourth-Year Elective in Pathology	Profs. Mallory and Wright	B. C. H. and M. G. H.	. .	Feb.—May	25.
19. The Classification and Diagnosis of Tumors	Prof. Mallory	Medical School	. .	Feb.—May	25.
20. Neuropathology	Prof. Southard	Med. Sch. and Danvers Insane Hospital	25	Oct.—May	25.
21. The Inoculable Tumors of Mice and Rats	Dr. Tyzzer	Medical School	. .	Oct.—May	25.
22. Protozoölogy	Dr. Tyzzer	Medical School	. .	Feb.—May	25.
†23. Experimental Pathology	Dr. Gay	Medical School	. .	Oct.—May	25.
†24. Ophthalmic Pathology	Dr. Verhoeff	Mass. Charitable Eye and Ear Infirmary	48	Feb., Mar.	50.
Comparative Pathology					
†25. *a.* The Comparative Pathology and Etiology of Infectious and Parasitic Diseases	Prof. Smith and Assistants	Medical School	. .	Oct., Nov.	30.
b. The Comparative Pathology and Etiology of Infectious and Parasitic Diseases	Prof. Smith and Assistants	Medical School	. .	Dec., Jan.	30.

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* Time includes months named. When time and fee are "special," arrangements must be made with the instructor.

† Women admitted.

SUBJECT.	INSTRUCTOR.	PLACE.	No. of Exercises.	TIME.*	FEE.
Hygiene					
†26. Hygiene, general	Prof. Harrington	Medical School	. .	Special	$50.
†27. Hygiene, special courses	Prof. Harrington	Medical School	. .	Special	35.
Pharmacology					
†28. Research in Pharmacology	Prof. Pfaff and Dr. Tyrode	Medical School	. .	Special	Special.
Medicine					
29. Theory and Practice A	Dr. Palfrey	Mass. General Hospital	. .	Oct.—May	25.
30. Theory and Practice B	Prof. Christian and Drs. Leen and Frothingham	Carney Hospital and Medical School	. .	Oct.—May	25.
31. Theory and Practice C	Drs. Hewes and Adler	Medical School	. .	Oct.—May	25.
32. Theory and Practice D	Dr. Pratt	Medical School	. .	Oct.—Jan.	25.
33. Theory and Practice E	Prof. Christian and Dr. Frothingham	Medical School	. .	Oct.—May	25.
34. Theory and Practice F	Dr. Hewes	Medical School	. .	Oct.—Jan.	25.
35. Theory and Practice G	Dr. Adler	Medical School	. .	Oct.—Jan.	25.
36. Theory and Practice H Diseases of Digestive Tract	Dr. Hewes	Mass. Gen. Hosp. and Medical School	12	Oct., Nov., Dec.	25.
†37. *a.* Diseases of the Digestive Organs and of Metab. — Dietetics. — Hematology	Dr. F. W. White	B. C. H., O. P. D.	24	Nov.	30.
b. Diseases of the Digestive Organs and of Metab. — Dietetics. — Hematology	Dr. F. W. White	B. C. H., O. P. D.	24	Dec.	30.
c. Diseases of the Digestive Organs and of Metab. — Dietetics. — Hematology	Dr. F. W. White	B. C. H., O. P. D.	24	Jan.	30.

†38. Clinical Medicine	Dr. F. W. White	B. C. H., O. P. D.	27	Dec.	30.
Surgery					
39. General Surgery of Children, 8 courses	Prof. Burrell, Drs. H. W. Cushing and J. S. Stone	Children's Hospital	30	Oct.—May	25.
40. Surgical Pathology	Asst. Prof. Nichols	Med. Sch. and B. C. H.	20 +	Jan.	25.
41. Research in Surgical Pathology	Asst. Prof. Nichols	Medical School	. .	Dec. 1 to June 1	Special.
42. *a.* Major Genito-Urinary Surgery	Dr. Paul Thorndike	Boston City Hospital	. .	Oct., Nov.	25.
b. Major Genito-Urinary Surgery	Dr. Paul Thorndike	Boston City Hospital	. .	Dec., Jan.	25.
c. Major Genito-Urinary Surgery	Dr. Paul Thorndike	Boston City Hospital	. .	Feb., March	25.
d. Major Genito-Urinary Surgery	Dr. Paul Thorndike	Boston City Hospital	. .	Apr., May	25.
43. Major Surgery	Dr. J. B. Blake	Boston City Hospital	20 +	Jan. to May	25.
44. *a.* Diseases of Rectum and Anus	Dr. Faulkner	B. C. H. and Med. Sch.	12	Oct.	25.
b. Diseases of Rectum and Anus	Dr. Faulkner	B. C. H. and Med. Sch.	12	Nov.	25.
45. Abdominal Surgery	Dr. Lund	Boston City Hospital	24 +	Jan. 1 to April 30	25.
†46. Operative Surgery	Dr. Hubbard	Medical School	6	Oct. to May	25.
†47. *a.* Fractures and Dislocations	Dr. Crandon	Boston City Hospital	12 +	Dec.	20.
b. Fractures and Dislocations	Dr. Crandon	Boston City Hospital	12 +	Jan.	20.
†48. *a.* Surgical After-Treatment	Dr. Crandon	Boston City Hospital	20 +	Dec.	25.
b. Surgical After-Treatment	Dr. Crandon	Boston City Hospital	20 +	Jan.	25.
49. Major Oper. Technique on Animals	Dr. Cheever	Special	. .	Special	25.
†50. General Surgery	Drs. Scudder and Davis	Mass. General Hospital	24 +	Feb. to May	25.
†51. *a.* Clinical and Operative Surgery	Dr. F. Cobb	Mass. General Hospital	48 +	Oct., Nov.	30.
b. Clinical and Operative Surgery	Dr. F. Cobb	Mass. General Hospital	48 +	Dec., Jan.	30.
†52. Theory and Practice of Röntgenology	Dr. Brown	Instructor's Laboratory	12	Oct.—May	25.
†53. Practical Surgical Röntgenology	Dr. Brown	Carney Hospital	12	Oct.—May	25.
54. Operative Surgery	Dr. Monks	H. M. S.	. .	Special	25.

* Time includes months named. When time and fee are "special," arrangements must be made with the instructor.
† Women admitted.

SUBJECT.	INSTRUCTOR.	PLACE.	No. of Exercises.	TIME.*	FEE.
Orthopedic Surgery					
†55. General Orthopedic Surgery, 4 courses	Profs. Bradford & Nichols, Drs. Lovett, Brackett, Goldthwait, Pratt, Thorndike, George, Osgood, Soutter, & Brown	Children's Hospital Mass. General Hospital Carney Hospital	24+	Oct.—May	$50.
Obstetrics					
56. Clinical Obstetrics, 8 courses	The Department Staff	Boston Lying-in Hosp.	26	Oct.—May	25.
57. Clinical Obstetrics, 8 courses	Address Prof. C. M. Green	Boston Lying-in Hosp.	. .	Special	25.
58. Operative Obstetrics, 8 courses	The Department Staff	Medical School	5	Oct.—May	25.
59. Clinical and Operative Obstetrics	Address Prof. C. M. Green	Boston Lying-in Hosp. and Medical School	. .	Oct.—May	25.
Gynaecology					
60. *A* Gynaecology, 8 courses *B* Gynaecology, out-patient, 8 courses *A* and *B* Gynaecology	Prof. C. M. Green, Drs. Newell, Young, Friedman and Mason	Boston City Hospital Boston City Hospital Boston City Hospital	12 26 26	Oct.—May Oct.—May Oct.—May	25. 25. 25.
†61. Gynaecology	Dr. Storer	Boston Dispensary	12	Jan.	25.
†62. Operative Gynaecology	Dr. Storer	St. Elizabeth's Hospital	15	Apr., May	25.
63. Clinical Gynaecology	Dr. Graves	Free Hospital for Women	12	Oct. 1—Feb. 1	25.
64. Gynaecological Pathology	Dr. Graves	Free Hospital for Women	. .	Oct.—May	Special.
Pediatrics					
†65. Pediatrics, 8 courses	Profs. Rotch, McCollom, and Morse, Drs. Ladd, Dunn, Bowditch, Lucas, and Sylvester	Infants', Children's, Boston City Hospital and Medical School	26	Oct.—May	25.

Dermatology					
66. Dermatology, 4 courses	Prof. Bowen, Drs. C. J. White, Towle and Burns	Mass. General Hospital	24	Oct.—May	25.
67. Advanced Dermatology, 4 courses	Prof. Bowen, Drs. C. J. White, Towle and Burns	Mass. General Hospital	48	Oct.—May	50.
Syphilis					
68. Syphilis	Asst. Prof. Post and Dr. C. M. Smith	Boston Dispensary	24	Oct. to Jan.	25.
Neurology					
†69. Advanced Clinical Neurology	Prof. Putnam, Drs. Taylor and Waterman	Mass. General Hospital	. .	Oct.—May	15.
†70. Clinical Neurology	Prof. Putnam	Mass. General Hospital	24 +	Oct.—May	20.
†71. Clinical Neurology	Dr. Taylor	Mass. General Hospital	24 +	Oct.—May	20.
†72. Clinical Neurology	Dr. Waterman	Mass. General Hospital	24 +	Oct.—May	20.
†73. Clinical Neurology	Dr. Knapp	Boston City Hospital	24 +	Feb.—May	20.
†74. Laboratory and Clinical Neurology	Dr. Taylor	Med. Sch., Mass. Gen. & Long Island Hosps.	. .	Oct.—May	50–75.
Psychiatry					
75. Psychiatry	Drs. Cowles, Tuttle and Noyes	McLean and Boston Insane Hospitals	. .	Oct.—May	25.
Otology					
76. Research in Otology	Prof. Blake		. .	Sept.—May	Special.
†77. Operative Otology	Dr. Hammond	Eye and Ear Infirmary	25	Feb.—Apr.	25.
†78. Oper. Surg. of Temp. Bone	Dr. Knowles	Medical School	. .	Special	25.

* Time includes months named. When time and fee are "special," arrangements must be made with the instructor.
† Women admitted.

SUBJECT.	INSTRUCTOR.	PLACE.	No. of Exercises.	TIME.*	FEE.
Ophthalmology					
79. Ophthalmology	Asst. Prof. Standish and Drs. Jack and Clap	Mass. Charitable Eye and Ear Infirmary	48 +	Feb. and March	$50.
80. Ophthalmology, 2 courses	Dr. Quackenboss	M. C. E. and E. I.	26	Oct., Nov.	25.
81. Ophthalmology	Dr. Spalding	M. C. E. and E. I.	. .	Special	25.
82. Fourth-Year Elective		Mass. Charitable Eye and Ear Infirmary	. .	Feb.—May	25.
Laryngology and Rhinology					
83. *a.* Diseases of the Throat and Nose	Prof. Coolidge, Drs. Cobb, Clark, Goodale, and Mosher	Mass. General Hospital	48	Oct., Nov.	25.
b. Diseases of the Throat and Nose	Prof. Coolidge, Drs. Cobb, Clark, Goodale, and Mosher	Mass. General Hospital	48	Dec., Jan.	25.
c. Diseases of the Throat and Nose	Prof. Coolidge, Drs. Cobb, Clark, Goodale, and Mosher	Mass. General Hospital	48	Feb., March	25.
d. Diseases of the Throat and Nose	Prof. Coolidge, Drs. Cobb, Clark, Goodale, and Mosher	Mass. General Hospital	48	Apr., May	25.
84. Pathology of the Nose and Throat	Drs. Goodale and Barnes	Harvard Medical School	48	Feb., March	25.
85. Combined course in Ophthalmology, Otology, and Laryngology		M. G. H., B. C. H., and Medical School	. .	Oct.—May	200.

* Time includes months named. When time and fee are "special," arrangements must be made with the instructor.
† Women admitted.

TABULAR VIEW

OF

SUMMER COURSES OF INSTRUCTION

SUMMER COURSES OF INSTRUCTION PROVIDED IN 1908

No.	Subject	Instructor	Place	No. of Exercises	Begins	Ends	Days	Hour	Fee
	Anatomy								
1	Anatomy of Nose and Throat	Dr. Mosher	Medical School	12	Aug.	Sept.	Special	. .	$25
2	Surgical Anatomy of Abdomen	Dr. Cheever	Medical School	6	June 1	Sept. 29	. .	. .	25
3	*a.* Surface Anat. on Live Model *b.* do. *c.* do.	Dr. Scannell do. do.	Medical School do. do.	5 5 5	July Aug. Sept.	. . . . . .	. . . . . .	. . . . . .	10 10 10
4	Liv. An. of Child. : Röntgen Method	Dr. George	Medical School	. .	. .	. .	. .	. .	25
	Physiology								
5	Practical Physiology	Dr. Martin	Medical School	27 23	July 1 July 1	July 31 July 31	Daily Daily	9–5 2–5	40 25
	Biological Chemistry								
6	Research in Biological Chemistry	Prof. Folin and Drs. Alsberg and Henderson	Medical School	. .	. .	. .	. .	. .	. .
7	Biological Chemistry	Mr. Black and Dr. McCrudden	Medical School	22	July 1	July 31	M.Tu.W.Th.F.	2–6	25
	Bacteriology								
8	Infectious Diseases of Animals	Dr. Frothingham	Medical School	. .	. .	. .	Special	. .	50
9	Bacteriology	Drs. Perry and Page	Medical School	23	July 1	July 31	M.Tu.W.Th.F.	3.15	30
10	Bacteriology	Drs. Page and Perry	Medical School	21	Aug. 1	Aug. 31	M.Tu.W.Th.F.	3	30
11	Tropical Diseases	Dr. Tobey	Medical School	22	July 1	July 31	Daily	2–6	25
12	Bacterial Vaccines	Dr. Floyd	Medical School	27	July 1	July 31	Daily	9–12	30

	Pathology								
13	*a.* Gross and Microscop. Pathology	Drs. Robertson and Ordway	Medical School	23	June 1	June 30	Daily	2–6	25
	b. do.	do.	do.	23	July 1	July 31	Daily	2–6	25
14	*a.* Path. Anat. and Autop. Techn.	Dr. Oscar Richardson	Mass. Gen. Hosp.	31	July 1	July 31	Daily	9–5	35
	b. do.	do.	do.	31	Aug. 1	Aug. 31	Daily	9–5	35
15	Clin.-Path. Course in Dis. of the Eye	Dr. Verhoeff	Eye and Ear Inf.	36	Aug. 3	Sept. 12	Daily	9–12	50
	Pharmacology & Therapeutics								
16	Pharmacology and Therapeutics	Dr. Tyrode	Medical School	. .	. .	. .	. .	. .	. .
	Medicine								
17	*a.* Tuberculosis	Drs. Stone and Lee	Good Samaritan	19	June 19	July 31	M. W. F.	11	25
	b. do.	do.	do.	19	Aug. 3	Sept. 16	M. W. F.	11	25
18	*a.* Clinical Pathology	Drs. Hewes and Adler	Medical School & Mass. Gen. Hosp.	21	July 1	July 29	M.Tu.W.Th.F.	9–11 1–4	50
	b. do.	do.	do.	21	Aug. 3	Aug. 28	M.Tu.W.Th.F.	9–11 1–4	50
19	*a.* Clinical Pathology	Drs. Hewes and Adler	Medical School	21	July 1	July 29	M.Tu.W.Th.F.	1–4	25
	b. do.	do.	do.	21	Aug. 3	Aug. 28	M.Tu.W.Th.F.	1–4	25
20	*a.* Diseases of the Dig. Organs & Dietetics & Diseases of Metab.	Dr. White	City Hospital	24	June 8	July 4	Daily	10–12½	30
	b. do.	do.	do.	24	July 6	Aug. 1	Daily	10–12½	30
21	Clinical Diagnosis, Therapeutics, and Laboratory Methods	Dr. Lord	Mass. Gen. Hosp.	25	June 15	July 15	Daily	9–1 2–4	50
22	*a.* Lab. Courses in Clin. Diag.	Dr. Overlander	Medical School	22	June 1	June 30	M.Tu.W.Th.F.	. .	25
	b. do.	do.	do.	23	July 1	July 31	M.Tu.W.Th.F.	. .	25
	c. do.	do.	do.	21	Aug. 1	Aug. 31	M.Tu.W.Th.F.	. .	25

No.	Subject	Instructor	Place	No. of Exercises.	Begins	Ends	Days	Hour	Fee
	Pediatrics								
23	Pediatrics	Dr. Morse	Infants' Hospital	12	June 1	June 29	M. W. F.	11	$20
24	Pediatrics	Dr. Ladd	Infants' Hospital	13	June 2	June 30	Tu. Th. S.	11	20
25	Pediatrics	Dr. Dunn	Infants' Hospital	26	July 1	July 31	Daily	9–1 3–5	50
26	Pediatrics	Dr. Bowditch	Children's Hosp.	13	Aug. 1	Aug. 29	Tu. Th. S.	11	20
27	Pediatrics	Dr. Dunn	Infants' Hospital	13	Aug. 3	Aug. 31	M. W. F.	11	20
28	Pediatrics	Dr. Morse	Floating Hospital	12	Aug. 17	Aug. 29	Daily	8	20
29	Pediatrics	Dr. Dunn	Infants' Hospital	9	Aug. 3	Aug. 25	M. Tu.	3½	20
30	Pediatrics	Dr. Fairbanks	Children's Hosp.	8	Aug. 5	Aug. 29	W. S.	4	20
31	*a.* Pediatrics	Dr. George	Children's Hosp.	8	Aug. 6	Aug. 28	Th. F.	3–5	20
	b. do.	do.	do.	8	Sept. 3	Sept. 25	Th. F.	3–5	20
32	Pediatrics	Dr. Bowditch	Children's Hosp.	13	Sept. 1	Sept. 29	Tu. Th. S.	11	20
33	Pediatrics	Dr. Morse	Children's Hosp.	13	Sept. 2	Sept. 30	M. W. F.	11½	20
34	Pediatrics	Dr. McCollom	South Dept., B.C.H.	9	Sept. 1	Sept. 29	M. Tu.	3	20
35	Pediatrics	Dr. Fairbanks	Children's Hosp.	9	Sept. 2	Sept. 30	W. S.	4	20
	Surgery								
36	*a.* Major, Clinical and Operative Surgery, with, during July, Surgical Pathology	Drs. Lund and Nichols	City Hospital	24	June 3	June 29	Daily	10–12	25
	b. do.	do.	City Hosp. & H.M.S.	24	July 1	July 31	Daily	10–12	25
	c. do.	do.	City Hospital	24	Sept. 2	Sept. 30	Daily	10–12	25
37	*a.* Major Surgery	Dr. Lothrop	City Hospital	26	June 1	June 30	Daily	10	30
	b. do.	do.	do.	26	July 1	July 31	Daily	10	30
	c. do.	do.	do.	26	Aug. 1	Aug. 31	Daily	10	30
	d. do.	do.	do.	26	Sept. 1	Sept. 30	Daily	10	30

38	*a.*	General Surgery	Drs. Porter and Jones	Mass. Gen. Hosp.	25	June 1	June 29	Daily	10–1	25
	b.	do.	do.	do.	25	July 1	July 31	Daily	10–1	25
	c.	do.	do.	do.	25	Aug. 1	Aug. 31	Daily	10–1	25
	d.	do.	do.	do.	25	Sept. 2	Sept. 30	Daily	10–1	25
39	*a.*	Surgical Diseases of Children	Dr. Stone and volunteer assistant surgeons	Children's Hosp.	30	June 1	June 30	Daily	. .	25
	b.	do.	do.	do.	30	July 2	July 31	Daily	. .	25
	c.	do.	do.	do.	30	Aug. 1	Aug. 31	Daily	. .	25
	d.	do.	do.	do.	30	Sept. 1	Sept. 29	Daily	. .	25
40	*a.*	Operative Surgery on Animals	Dr. Hubbard	Medical School	6	July	. .	. .	. .	25
	b.	do.	do.	do.	6	Aug.	. .	. .	. .	25
	c.	do.	do.	do.	6	Sept.	. .	. .	. .	25
41	*a.*	Gen.-Urin. Surg. for Out-Patients	Dr. Crandon	City Hospital	25	June 1	June 30	Daily	9½–11	20
	b.	do.	do.	do.	25	Aug. 1	Aug. 31	Daily	9½–11	20
	c.	do.	do.	do.	25	Sept. 1	Sept. 30	Daily	9½–11	20
42	*a.*	Geuito-Urinary Diseases	Dr. Perry	Boston Dispensary	26	July 1	July 31	Daily	9½–12½	15
	b.	do.	do.	do.	26	Aug. 1	Aug. 31	Daily	9½–12½	15
	c.	do.	do.	do.	26	Sept. 2	Sept. 30	Daily	9½–12½	15
43	*a.*	Major Surgery	Dr. Scannell	City Hospital	27	July 1	July 31	Daily	9–12	25
	b.	do.	do.	do.	27	Aug. 1	Aug. 31	Daily	9–12	25
	c.	do.	do.	do.	27	Sept. 1	Sept. 30	Daily	9–12	25
44		Genito-Urinary Surgery	Dr. O'Neil	Boston Dispensary	25	June 1	June 29	Daily	9½–1	25
45	*a.*	Cystoscopy	Dr. Davis	Mass. Gen. Hosp.	14	July	. .	M. W. F.	10–1	25
	b.	do.	do.	do.	14	Aug.	. .	M. W. F.	10–1	25
		Orthopedic Surgery								
46	*a.*	Orthopedic Surgery	Prof. Bradford, and Drs. Lovett, Brackett, Goldthwait, A. Thorudike, Dane, Nichols, Osgood, Soutter, Pratt, Brown, and George	Children's Hosp. Boston Dispensary, Warren Museum, Carney Hospital, Mass. Gen. Hosp.	26	June 1	June 30	Daily	. .	50
	b.	do.	do.	do.	26	July 1	July 31	Daily	. .	50

No.	Subject	Instructor	Place	No. of Exercises	Begins	Ends	Days	Hour	Fee
	Obstetrics								
47	Clinical Obstetrics	Dr. Swain, assisted by Drs. Friedman, Torbert, and Mason	Lying-in Hospital	. .	May 1	Oct. 1	Daily	. .	30
48	*a.* Clinical Obstetrics	Dr. DeNormandie	Lying-in Hospital	26	June 1	June 29	Daily	11	20
	b. do.	Dr. Swain	do.	26	July 1	July 31	Daily	11	20
	c. do.	do.	do.	27	Aug. 1	Aug. 31	Daily	11	20
	d. do.	Dr. Torbert	do.	25	Sept. 2	Sept. 29	Daily	11	20
	Gynaecology								
49	Diagnosis and Treatment	Dr. Young	City Hospital	12	June 1	Aug. 31	Daily	9½	30
50	Gynaecology	Dr. Friedman	City Hospital	13	July 2	July 31	Tu. Th. S.	10–12	25
51	Gynaecology — Diagnosis and Treatment	Dr. Friedman	City Hospital	12	Sept. 3	Sept. 29	M. W. F.	9½	30
52	*a.* Minor Gynaecology	Dr. Mason	City Hospital	13	June 1	June 29	Tu. Th. S.	9½	25
	b. do.	do.	do.	13	Aug. 2	Aug. 30	Tu. Th. S.	9½	25
	c. do.	do.	do.	13	Sept. 1	Sept. 29	Tu. Th. S.	9½	25
53	*a.* Gynaecology — Diagnosis and Treatment	Dr. Graves	Free Hospital for Women	10	July 3	July 31	Tu. F.	9–12	20
	b. do.	do.	do.	10	Aug. 4	Aug. 28	Tu. F.	9–12	20
	c. do.	do.	do.	10	Sept. 1	Sept. 29	Tu. F.	9–12	20
	Dermatology & Syphilis								
54	*a.* Clinical Dermatology	Dr. White	Mass. Gen. Hosp.	26	July 1	July 31	Daily	9–12	25
	b. do.	do.	do.	26	Sept. 1	Sept. 30	Daily	9–12	25
55	Clinical Dermatology	Dr. Burns	Mass. Gen. Hosp.	27	Aug. 1	Aug. 30	Daily	9–12	25

		Neurology								
56	*a.*	Clinical Neurology	Dr. Baldwin	Mass. Gen. Hosp.	26	June 1	June 30	Daily	9–12	25
	b.	do.	do.	do.	26	July 1	July 31	Daily	9–12	25
	c.	do.	do.	do.	26	Aug. 1	Aug. 31	Daily	9–12	25
		Ophthalmology								
57	*a.*	Clinical Ophthalmology	Dr. Quackenboss	Eye and Ear Inf.	24	Aug. 1	Aug. 29	Daily	9–12	25
	b.	do.	do.	do.	24	Sept. 1	Sept. 28	Daily	9–12	25
58	*a.*	Clinical Ophthalmology	Dr. Spalding	Eye and Ear Inf.	13	June 1	June 29	M. W. F.	$9\frac{1}{2}$–11	25
	b.	do.	do.	do.	13	July 1	July 29	M. W. F.	$9\frac{1}{2}$–11	25
		Otology								
59	*a.*	Operative Otology	Dr. Crockett	Eye and Ear Inf.	26	June 1	June 30	Daily	. .	25
	b.	do.	do.	do.	26	July 1	July 31	Daily	. .	25
60	*a.*	Clinical Otology	Dr. Amadon	Eye and Ear Inf.	20	June 1	June 30	Daily	9–11	25
	b.	do.	do.	do.	20	July 1	July 31	Daily	9–11	25
		Laryngology								
61	*a.*	Laryngology	Dr. Clark	Mass. Gen. Hosp.	24	June 1	June 30	Daily	10–12	15
	b.	do.	do.	do.	24	July 1	July 31	Daily	10–12	15
	c.	do.	do.	do.	24	Aug. 1	Aug. 31	Daily	10–12	15
	d.	do.	do.	do.	24	Sept. 1	Sept. 30	Daily	10–12	15
62	*a.*	Rhinology and Laryngology	Dr. Coffin	City Hospital	12	June 1	June 26	M. W. F.	9–11	15
	b.	do.	do.	do.	12	July 1	July 24	M. W. F.	9–11	15
	c.	do.	do.	do.	12	Sept. 3	Sept. 28	M. W. F.	9–11	15

TABULAR VIEW OF UNDERGRADUATE COURSES.

FIRST YEAR — First Half-Year.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9–10	*October.* Anatomy. Lecture. *November, December.* Demonstrations and Laboratory Work.		*Oct., Nov., Dec.,* Anatomy. Lecture.	*October.* Anatomy. Lecture. *November, December.* Demonstrations and Laboratory Work.		*Oct., Nov., Dec., 9–11.* Histology. *January, 9–11.* Anatomy. Lecture.
10–1	*October, November, December, January.* Demonstrations and Laboratory Work.					*Oct., Nov., Dec., Jan. 11–1.* Anatomy. Lecture.
2–6	*January.* Lectures, Demonstrations, and Laboratory Work.					
2–2.30	*October, November, December.* Histology. Lecture.					
2.30–6	Histology. Laboratory.					

FIRST YEAR. — Second Half-Year.

PHYSIOLOGY. FEBRUARY.

	MONDAY.	TUESDAY.		WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.	
9–10	Lecture or Demonstration.	Lecture or Demonstration.						
10–12	Laboratory Experiments.	10-10.15	Written Test.				10–1	Laboratory Experiments.
12–1	Written Test.	10.15–1	Laboratory Experiments.					
March, April, May.								
9–10	Lecture or Demonstration.	Lecture or Demonstration.						
10–10.15	Laboratory Experiments.	Written Test.					10-12.15	Laboratory Experiments.
10.15–12	Laboratory Experiments.	10.15–12.15	Laboratory Experiments.					
12–1	Written Test.	12.15–1	Thesis or Demonstration.					
BIOLOGICAL CHEMISTRY.								
2–3	Lecture. Daily except Saturday.							
3–6	Laboratory.			Laboratory and Conference.	Laboratory.			

SECOND YEAR. — First Half-Year.

	OCTOBER.	NOVEMBER.	DECEMBER.			JANUARY.
9–12	Pathology. Laboratory.		1 week. Pathology. Laboratory. Daily.	2 and 3 weeks. Pathology of certain Parasitic Diseases. Laboratory. T. Smith. Daily.	9–10	Monday, Wednesday, and Friday. Surgery. Clinical Lecture. Nichols. B. C. H.
					9–12	Tuesday, Thursday, and Saturday.
					10.30–12	Monday, Wednesday, and Friday. Pathology. Laboratory.
12–1	Pathology. Lectures. Daily.				12–1	Pathology. Lectures. Daily.
2–3	Bacteriology. Lectures. Daily except Saturdays.		Pathology of the Nervous System. Laboratory. Southard.		Daily except Saturday. Surgical Pathology. Laboratory. Nichols.	
3–5.30	Bacteriology. Laboratory. Daily except Saturdays.					

SECOND YEAR. — Second Half-Year.

	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
	M. G. H.	M. G. H.	B. C. H.	M. G. H.	M. G. H.	B. C. H.
9–10	Clinical Medicine Clinic Shattuck	Surgery Clinic M. H. Richardson	Surgery Clinic Lothrop	Theory & Practice Clinic Badger	Surgery Clinic M. H. Richardson	Clinical Medicine Clinic Jackson
10–12	Section Work					Surgery Clinic J. B. Blake
1–3	Clinical Pathology					
3–4	Surgical Technique 6 lectures Lothrop Room 201	Theory&Practice. L. Christian Room 201			Theory&Practice. L. Christian Room 201	
4–5	Surgery. L. Room 201	Pharmacology. L. Pfaff	Pharmacology. L. Pfaff	Surgery. L. Room 201	Pharmacology. L. Pfaff	
5–6	Hygiene. L. Harrington	Surgery. L. Room 201	Hygiene. L. Harrington	Hygiene. L. Harrington	Surgery. R. Lothrop and Greenough Room 201	

THIRD YEAR. — First Half-Year.

	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
Class Exercises 9–10	Theory and Practice Clinic Hewes, M. G. H.	Clinical Medicine Clinic Sears, B. C. H.	Clinical Medicine Clinic Shattuck, M. G. H.	Neurology Clinic Taylor, M. G. H.	Clinical Medicine Clinic Sears, B. C. H.	Clinical Medicine Clinic Shattuck, M. G. H.
10–11	Surgery Clinic M. H. Richardson M. G. H.	Clinical Surgery Clinical L. Burrell, B. C. H.	Dermatology Clinic Bowen, M. G. H.	Theory and Practice Clinic, Stone, Lee, or Lord, M. G. H.	Pediatrics Clinical L. Rotch, C. H.	Theory and Practice Clinic Pratt, M. G. H.
Sections 11–1	Section Work.					
2–3					Theory and Practice L. Christian, Room 201	
3–4	Obstetrics. L. Green Room 205	Theory and Practice L. Christian Room 201	Obstetrics Conference Swain Room 205	Obstetrics. L. Green Room 205	Obstetrics. R. Newell Room 205	
4–5	Surgery. L. Room 201	*Oct., Nov.* Dermatology. L. Bowen Room 201 *Dec., Jan.* Syphilis. L. Post, Room 205	Surgery. L. Room 201	Pediatrics. L. Rotch Room 205	Therapeutics. L. Pfaff	
5–6	*Oct., Nov.* Ophthalmology Standish *Dec., Jan.* Orthopedics Bradford Room 205	*Oct., Nov.* Surgery. R. Lothrop and Greenough *Dec., Jan.* Orthopedics Bradford Room 205	*Oct., Nov.* Ophthalmology Standish *Dec., Jan.* Orthopedics Bradford Room 205	*Oct., Nov.* G.-U. Surgery. L. Thorndike *Dec., Jan.* Surgery. R. Lothrop and Greenough		

THIRD YEAR. — Second Half-Year.

	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
Class Exercises 9–10	Neurology Clinic Putnam, M. G. H.	Clinical Medicine Clinic H. Jackson B. C. H	Neurology Clinic Putnam, M. G. H.	Clinical Medicine Clinic Sears, B. C. H.	Clinical Medicine Clinic Bartol, B. C. H.	Clinical Medicine Clinic Shattuck, M. G. H.
10–11	Surgery. Clinic C. A. Porter M. G. H.	Clinical Surgery Clinical L. Burrell, B. C. H.	Dermatology Clinic Bowen, M. G. H.	Clinical Surgery Clinical L. Burrell or Monks B. C. H.	*Feb., Mar.* Pediatrics Clinical L. Rotch, C. H. Morse, No. Grove St. *Apr., May* Syphilis Clinical L. Post, B. D.	Theory and Practice Clinic Pratt, M. G. H.
Sections 11–1				Section Work.		
2–3	Municip. Sanita. Durgin Room 207		Psychiatry Cowles Room 201	Municip. Sanita. Durgin Room 207		
3–4	Obstetrics. L. Green Room 205		Obstetrics Conference Swain, Room 205	Obstetrics. L. Green Room 205	Obstetrics. R. Newell Room 205	Psychiatry Clinic Cowles, B.I.H.
4–5	Pediatrics. L. & R. Rotch, Morse Room 205	Pediatrics. L. & R. Rotch, Morse Room 205	Gynaecology L. or R. Green, Room 205	Laryngology Lecture Coolidge, Room 205	Gynaecology. L. Green Room 205	
5–6	*Feb., Mar.* Otology Lecture C. J. Blake, Room 205 *Apr., May* Laryngology Lecture Coolidge	Clinical Medicine Case Teaching Cabot Room 205	Clinical Medicine Case Teaching Cabot Room 205	Otology Lecture C. J. Blake, Room 205	Surgery Case Teaching J. B. Blake	

DEGREES

On February 26, 1908, degrees were conferred as follows: —

M.D.

Frank Carr Carlton, S.B. 1903.
George Francis McIntire.
Boris Sidis, A.B. 1894, A.M. 1895, PH.D. 1897.
Horace Paine Stevens, A.B. 1903.
Leo Edward Welker, PH.B. (*Iowa Coll.*) 1903.

On Commencement Day, June 24, 1908, degrees were conferred as follows: —

M.D.

Harry Saul Bernstein, A.B. 1904.
Edward Joseph Black, PH.B. (*Brown Univ.*) 1904.
Earl Danford Bond, A.B. 1900.
Edward Dunn Brown, A.B. (*Univ. of Pennsylvania*) 1899
Heman Baker Chase, S.B. (*Amherst Coll.*) 1904.
Edward James Curran.
John Joseph Curtin, A.B. 1905.
Frederic Joseph Denning, A.B. 1905.
Martin Russ Edwards.
Samuel Chester Eveleth, A.B. (*Amherst Coll.*) 1904.
Henry Joseph FitzSimmons, A.B. 1903.
James Murry Gallison, A.B. (*Brown Univ.*) 1904.
Edward John Gray, S.B. (*St. Joseph's Univ.*) 1904.
Robert Granville Hall, S.B. 1905.
Isaac Hartshorne, A.B. (*Amherst Coll.*) 1904.
Charles Cheves Haskell, A.B. (*Univ. of Virginia*) 1905.
Thomas Patrick Hennelly, A.B. (*Tufts Coll.*) 1904.
Harold Waters Hersey, S.B. 1904.
Robert Dudley Hildreth, S.B. (*Amherst Coll.*) 1904.
Walter Garfield Hiltner, S.B. (*Nebraska Univ.*) 1904.
Francis James Hogan, A.B. (*St. Francis Xavier's Coll.*) 1902
Charles Albert Holbrook, A.B. 1900.
Delbert Linscott Jackson, S.B. (*Dartmouth Coll.*) 1904.
Francis Thomas Jantzen, A.B. 1905.
Henry Floyd Keever, A.B. 1905 (1904).
William Francis Lynch, A.B. (*Georgetown Univ.*) 1904.
Francis Joseph McCabe, A.B. (*Dartmouth Coll.*) 1905.
Eugene Ambrose McCarthy, A.B. (*Brown Univ.*) 1904.
Francis Henry McCrudden, S.B. (*Mass. Inst. of Technology*) 1900.

William McFarland, A.B. (*Williams Coll.*) 1904.
John Francis Maguire, A.B. (*Boston Coll.*) 1894.
William Leake Mann, Jr., PH.B. (*Southwestern Univ.*) 1903.
Arturo Fabio Manotas.
James Willis Johnson Marion, A.B. 1904.
Harry Foster Markolf, A.B. (*Middlebury Coll.*) 1904.
William Theodore Miller, Jr., A.B. (*Western Reserve Univ.*) 1905.
Fred Porter Moore, S.B. 1905.
George W Morse, Jr., A.B. 1904.
Raymond Augustine Quigley, S.B. (*Mass. Agricultural Coll.*) 1904.
Lucius Albert Salisbury, A.B. (*Brown Univ.*) 1904.
Edmund Houghton Sawyer, S.B. (*Univ. of California*) 1904.
William James Clyde Sharpe, A.B. 1904.
William Lamson Soule, A.B. (*Colby Coll.*) 1890, M.D. (*Boston Univ. Medical School*) 1896.
John Baker Swift, Jr., A.B. 1904.
Albert Seward Tenney, A.B. (*Cornell Univ.*) 1905.
Michael Aloysius Tighe, A.B. (*Boston Coll.*) 1903.
James Scott Tomkies, A.B. (*Tulane Univ.*) 1903.
William Claude Usher, A.M. (*Queen's Univ.*) 1905.
Edmund Francis Walsh, A.B. 1904.
Frederick Orra West, S.B. 1905.
Samuel Henry Wilkins, Jr., A.B. (*Dartmouth Coll.*) 1905.
Clarence Field Worthen, S.B. (*Univ. of Vermont*) 1903.

M.D. cum Laude

Howard Felix Adler, S.B. (*Univ. of California*) 1905.
Ernest Lazarus Booth, A.B. 1905 (1904).
Bertram Harrington Buxton, A.B. (*Brown Univ.*) 1904.
Arthur Hallam Crosbie, A.B. 1903.
Clarence Guy Lane, A.B. 1905.
Charles Henry Lawrence, Jr., A.B. 1903.
Henry Kovál Marks, A.B. (*Leland Stanford Jr. Univ.*) 1904.
Hyman Morrison, A.B. 1904.
Louis Harry Newburgh, A.B. 1905 (1904).
George Gilbert Smith, A.B. 1905.
Roland Lesley Toppan, A.B. 1904.
William Stewart Whittemore, A.B. 1904.

ADMISSION EXAMINATION.

JUNE, 1908.

CHEMISTRY.

INORGANIC CHEMISTRY.

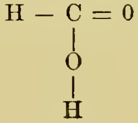
1. State the properties of the sulphates of potassium, lead, and silver.
2. Describe a process for the manufacture of sulphuric acid.
3. How much carbon di-oxide may be obtained from 5.14 grams of sodium carbonate? Na 23 C 12 O 16.
4. What is water of crystallization? How may its presence be shown?
5. What is the constitution of the atmosphere?

QUALITATIVE ANALYSIS.

6. How may chlorides, bromides, and iodides be distinguished?
7. How may barium, strontium, and calcium be distinguished?
8. Describe the test for ammonium salts.

ORGANIC CHEMISTRY.

9. Write the formulas of tartaric acid, ethyl acetate, acetylene, ethane, methyl alcohol.
10. What are fats? How may soaps be prepared from them?
11. How may ether be prepared?
12. What is kerosene?
13. What are the properties of the substance having the formula



$$\begin{array}{ccccc} H & - & C & = & 0 \\ & & | & & \\ & & O & & \\ & & | & & \\ & & H & & \end{array}$$

EXAMINATION PAPERS.

(Annual Examinations, 1908.)

First Year Studies.

ANATOMY. — Professor Dwight.

1. Describe the outer and the inner ends of the clavicle, giving their shape and chief features.
2. With what bones does the astragalus articulate? What important difference between the inner and outer aspects?
3. Describe the ligaments forming a part of the wall of the pelvis.
4. Describe the serratus magnus muscle.
5. Give the course of the internal carotid artery in the skull. What are its most important branches?
6. Describe the pyramidal tract from its origin to the lower border of the medulla oblongata.
7. From what nerve-roots is the obturator nerve formed? What does it supply?
8. Describe the corpus callosum.
9. What are the surfaces and the relations of the spleen?
10. Give the relations of the transverse part of the arch of the aorta.
11. How and where does the thoracic duct begin? Give its course.
12. Describe the mesentery of the jejuno-ileum.

HISTOLOGY AND EMBRYOLOGY. — Professor Minot.

[Each student is given three sections to correspond with the first three questions below. He is expected to make simple drawings only, but sufficient to show that he has correctly identified the parts. Any student who draws tissues or structures, not shown in his preparations, will be considered to have failed in all his answers.]

Questions 1, 2, 3, and 4 are for both Medical and Dental students.

1. What is the organ? From what part of the organ is the section taken? Draw and describe its layers. Draw in detail some of the nerve cells found in the organ, and state where they are situated.

2. Draw and describe a few of the characteristic cells in the section.

3. What is the organ? Describe its characteristic tissue.

4. Describe the course of the lymph and of the blood through a lymph gland. Note the relations of the vessels to the surrounding structures.

5. (*For Medical students only.*) Describe the development of the pancreas.

6. (*For Dental students only.*)

(*a*) Show by a series of drawings the development of the enamel organ.

(*b*) Draw and describe the changes which take place in the dentine papilla from its first appearance to its condition in the completed tooth.

(*c*) Describe the alveolodental membrane.

PHYSIOLOGY. — Professor CANNON.

[Answer any five questions. Mention, where possible, experimental evidence in support of your statements.]

1. State five important differences between conduction in the nerve trunk and conduction in which the central nervous system is involved. Illustrate in each instance.

2. Discuss Weber's law of the relation between stimulus and sensation. Illustrate.

3. What happens in a blood pressure record when the depressor nerve is stimulated? When the peripheral end of the cut vagus nerve is stimulated? When the sciatic is stimulated? When amyl nitrite is breathed? When adrenalin is introduced into a vein? Explain each change.

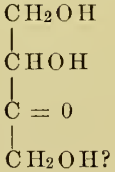
4. Describe and explain the effects of respiration on arterial blood pressure. What agencies normally aid the heart in the circulation of the blood?

5. Give one theory of lymph formation and explain the action of one class of lymphagogues.

6. Discuss the correlation of gastric and intestinal digestion through the agency of the pyloric sphincter.

BIOLOGICAL CHEMISTRY. — Drs. ALSBERG and HENDERSON.

1. What would be the physical and chemical properties and reactions of a substance having the formula



$$\begin{array}{l} CH_2OH \\ | \\ CHOH \\ | \\ C = 0 \\ | \\ CH_2OH? \end{array}$$

2. Compare the hydrolytic cleavages of proteins and fats. Explain the methods by which the processes may be studied.

3. Discuss the value of fats, carbohydrates, and proteins as sources of energy to the animal. What other substances may yield energy?

4. State the various factors involved in removal of carbonic acid from the body.

5. What are nucleo proteins?

6. What fats occur in the animal? How may the presence of glycerine be demonstrated?

7. What is the origin of sulphuric acid and phosphoric acid in the urine?

8. What chemical processes are involved in muscular contraction?

9. Discuss protein metabolism.

10. State the main facts concerning ammonia as a metabolism product. Describe the determination of ammonia in the urine.

Second Year Studies.

BACTERIOLOGY. — Professor Ernst.

1. What bacteria are commonly associated with pneumonia? Describe two of them.
2. Describe the infecting agent in typhoid fever.
3. What is meant by active and passive immunity?

PATHOLOGY. — Professor Councilman.

Write answers to questions 1 and 2 on separate paper which is provided.

1. Give the general anatomy and biology of a round worm and a tapeworm.

(Some one species is to be described and not some composite. The student may choose the species.)

2. Describe the ways in which the intestinal parasites may injure their host and give specific illustrations.

3. Give the varieties of exudations which are found in inflammation. Give some of the factors which determine the character of an exudation. Describe specifically the pathological histology of the trachea in diphtheria.

4. What do you mean by fatty degeneration? How is it recognized? What are some of the common causes of fatty degeneration? What is amyloid? Where is it situated in the tissues?

5. Describe an infarction of the kidney. What are the changes leading to its production? How is repair of the infarcted area brought about?

6. What are the gross lesions which are associated with pathological conditions of the vascular system including the heart? Give the relation between these lesions and special pathological conditions of the blood vascular system.

7. In what different ways are tumors classified? Which basis of classification is the best and why?

8. Melanotic sarcoma. Where primary? From what cells do they originate? Shapes and arrangement of cells. Source and nature of pigment. In what mammal other than man are they of common occurrence?

9. Appendicitis. Describe the anatomical conditions which favor the occurrence of infection of the appendix; mention predisposing causes; describe the series of changes seen in acute appendicitis.

10. Name the chief histological features of anterior poliomyelitis, (*a*) acute stage; (*b*) end-result. What are the functional effects of destroying (1) the anterior horns of the spinal cord; (2) the pyramidal tracts?

HYGIENE. — Professor Harrington.

1. Define: Haemolysis; active acquired immunity; passive acquired immunity; natural immunity.

2. How does soil air differ in composition from atmospheric air? Of what diseases of man do the exciting causes reside in the soil?

3. To what is the discomfort of overcrowding attributable? How are fogs produced, and what influence have they, when long continued, on the health of large cities? How does the combustion of illuminating gas affect the air of confined spaces?

4. What is the significance of an abnormally high content of chlorine with appreciable amounts of free ammonia and nitrites in water?
To what is the corrosive property of water upon lead pipe due?
What diseases of man are spread through specifically polluted water?

5. Compare the proteid value of lean beef, wheat, milk, cheese, and potatoes.
What is the composition of average cow's milk?
What changes are produced in milk by boiling?
What are the characteristics of a milk-borne epidemic of one of the common communicable diseases?

6. What disinfectants are best suited to the sterilization of feces? sputum? sheets? woolen clothing?
What are the principal methods of sewage disposal?

7. How are birth-rates and death-rates calculated?
How is infantile mortality expressed?
Name in general terms the occupations which you would advise a person with an apparent tendency to tuberculosis to avoid. What classes of occupations would you advise for such?

8. What diseases are known to be spread by insects?
Mention the different ways in which typhoid fever is spread.

Third Year Studies.

MATERIA MEDICA AND THERAPEUTICS. — Professor Pfaff.

1. Action and uses of mercury.
2. Action and uses of potassium iodide.
3. Action and uses of thyroid gland.
4. Action and uses of pilocarpine.
5. Write prescriptions, avoiding abbreviations, for: (*a*) iron; (*b*) apomorphine; (*c*) digitalis; (*d*) ergot; (*e*) nitroglycerine; (*f*) morphine.
6. General methods of treatment of kidney diseases.
7. Action and uses of ammonia.
8. Give a diet for a case of chronic diarrhoea.

THEORY AND PRACTICE. — Professor Fitz.

1. The significance in practice of the parathyroid glands.
2. Describe "Banti's" disease.

3. The precautions to be taken to prevent the spreading of typhoid fever from the patient to other members of the household.
4. Discriminate between the Stokes-Adams' syndrome and the Cheyne-Stokes' phenomenon.
5. The relation between peripheral and visceral arteriosclerosis.
6. The treatment of pneumothorax.
7. Indications for the surgical treatment of gastric ulcer.
8. The prognosis and treatment of jaundice according to its method of origin.
9. The diagnosis of acute inflammation of the omental bursa.
10. The diagnosis of disorders of renal function.

CLINICAL MEDICINE. — Professor SHATTUCK.

[Discuss these cases in the order in which they are arranged. Assume that symptoms not mentioned are wanting; but as omissions, intentional or not, may occur, state them if essential. The intelligent discussion of the case will have more weight than a hasty and inconclusive, though correct, diagnosis. Write out all prescriptions in full.]

CASE 1. — A woman, 30 years old, is admitted to the Hospital April 3. Her family history and habits are good. She has had three healthy children after normal labor and no miscarriages. Her previous health has always been good. She is now at the beginning of the third month of pregnancy. Ever since this began she has had considerable nausea and has usually vomited two or three times a day. On April 1st she began to complain of headache, which continued into the next day, but did not prevent her doing her housework. Yesterday, while at the wash-tub, she was suddenly attacked by very sharp pain in her head and abdomen, which was soon followed by vomiting. The latter gave no relief, and two hours later she became unconscious.

The patient is in fair flesh, pallid, unconscious, skin hot and dry. The eyes are turned upward and to the left. The pupils react to light; the left is larger than the right. The tongue is dry and foul. The neck is held somewhat rigidly but there is no retraction and no tenderness. The heart is normal in size and position; its sounds are short, weak. Except for numerous moist rales at both bases the lungs are normal. Abdomen negative. Knee-jerks active, no Kernig, no Babinski. No paralyses of face or limbs could be determined. Temperature 102°, pulse 140, very weak, respirations 34. White cells number 17000. Physical examination is otherwise negative.

Eight ounces of urine were drawn by catheter. Sp. gr. 1036. Color, high, albumin $\frac{1}{4}$%. Sugar, a trace; acetone, a slight trace. The sediment showed numerous fresh blood cells, and occasional small round cells and hyaline and fine granular casts.

Diagnosis? Prognosis? Treatment?

CASE 2. — A large well-developed man of forty-two is seen November 12th, 1907, of good family history and habits, a head farmer. He had measles in childhood. He has been a very active and efficient man.

Until ten years ago, he was very athletic, excelling in various feats, which he then gave up, apparently because he was too busy with other things. He says that he first noticed shortness of breath on exertion last April. This has gradually increased, and he has been able to do less and less.

About two weeks ago he came under treatment because he could not lie down at night, and could do very little on account of dyspnoea. There was slight swelling of the feet at the time and some cough, rales at the posterior bases. He was put to bed and given digitalis and nitro-glycerine with morphia at night. There was no albumin in the urine. After about ten days his breathing became much easier.

November 10th he went into the bathroom, returned to his room, and in about twenty minutes both feet and legs half-way to the knees tingled and felt as if they were asleep. This soon gave way to pain, becoming very severe, equal on the two sides. The pain then left the right leg, but has persisted in the left. Both feet and legs are equally warm to the touch. Slight swelling over the left, none over the right shin. A purplish spot at the end of the right great toe. The outer aspect of the right leg half-way to the knee is anaesthetic to touch, no swelling of the joints. The posterior tibials and dorsalis pedis arteries cannot be felt on either side. The wrist pulse is rather feeble, and does not correspond with the heart beat which is pretty irregular, both in force and rhythm. The cardiac apex is not localized to sight or touch. Percussion shows increased transverse diameter of the heart. No distinct murmur heard. The urine of yesterday is said to have contained a slight trace of albumin. No fever at any time. Lies with the head low; can lie on either side, and now makes no complaint of dyspnoea. Color is good.

Diagnosis? Prognosis? Treatment?

Case 3. — A clerk, 28 years old, is seen February 27th. Family history negative. Habits good. He was operated upon five weeks ago for appendicitis within twenty-four hours after its onset, and a sloughing appendix, which had not perforated, was removed. The wound required drainage. For the first five or six days his progress was satisfactory, and then nausea and vomiting set in. He was finally able to retain nothing by the mouth, and two weeks ago was put on rectal feeding with decided benefit. The nausea still persists, but he now takes a fair amount of liquid nourishment without vomiting. He has had no pain other than that incidental to the operation. and apart from the nausea he complains chiefly of exhaustion. The temperature has run a zig-zag course since the operation, but the swings have been greater during the past week, ranging from 98° to 104°. He has had occasional chills and profuse sweats. The patient is emaciated and prostrated, requiring help in turning. The skin is slightly yellow but the conjunctivae are clear. Cheeks flushed. Heart normal in size and position; no murmurs. Examination of left chest negative. Dulness in the right chest begins at the level of the fifth rib in the nipple line, and extends to the base. Its upper border is somewhat higher in the axilla than in front or behind, and descends somewhat on deep inspiration. Respiration can be heard and fremitus felt everywhere, but both diminish toward the base. There is some tenderness over the lower right ribs in the back.

The abdomen is somewhat distended and everywhere tympanitic. In the right iliac fossa is a linear scar about four inches long, showing a small superficial area which has not yet healed. Pressure over it produces no tenderness and reveals nothing abnormal beneath. The sharp smooth edge of the liver can be felt two inches below the costal margin. It is not tender. Pulse 135, small and weak. Respirations 30. Leucocytes number 28000. Urine negative. Physical examination otherwise not noteworthy.

Diagnosis? Prognosis? Treatment?

PEDIATRICS. — Professor ROTCH.

[More credit will be given to an intelligent discussion of the case than to a correct diagnosis unsupported by such discussion.]

1. Discuss the following case and give the differential diagnosis, and the treatment: —

A girl, 3½ years old, had always been well except that she had had chicken pox a year previously. She began to have a slight fever on the afternoon of March 9th. When seen in the evening by her physician, the temperature was 100.5° F. She complained of a little pain in the left wrist, but nothing could be made out on physical examination. The temperature was 102.5° F. On the morning of the 10th, the wrist was very painful and there was some tenderness on pressure, but no swelling or heat. The temperature gradually rose, and the pain in the wrist and forearm increased. She became delirious, the morning of the 11th, and was seen in the late afternoon. There had been no chills or vomiting. She had taken very little food. The bowels had been moved by a cathartic.

Physical Examination. — She was well developed and nourished. Her color was good. She was actively delirious, but could be made to answer sensibly. There was no rigidity of the neck. The pupils were small and equal, but did not react to light. The tongue was moderately coated, but was protruded in the median line. The heart and lungs showed nothing abnormal. The abdomen was negative. The liver and spleen were not palpable. The extremities showed nothing abnormal except the left arm. There was no spasm or paralysis. Kernig's sign was absent. The knee-jerks were equal and normal. There was considerable swelling about the upper two-thirds of the left forearm, with a very little about the elbow joint and in the lower portion of the upper arm. There was moderate tenderness over the upper forearm, especially about the radius. This swelling seemed to be deep and not superficial. There was some heat, but no redness. The motions of the wrist were free, but were slightly limited at the elbow. There was no evidence of effusion into the elbow joint. There was no enlargement of the axillary lymph nodes. The temperature was 104° F., the pulse 160.

The white blood count was 32,000.

2. Give the initial treatment of a case of infectious diarrhoea of the type in which the movements contain mucus and blood.

3. Compare the chemical analysis of cow's milk with human milk.

4. What complications are likely to occur in an attack of measles?

5. What possibilities would you consider in the case of a child suffering from an acute infectious disease, the routine physical examination on the fourth day being negative?

6. A child is taken with a sudden attack of vomiting, complains of sore throat, and on examination the throat is found to be slightly red, the lymph nodes are enlarged, the tongue is coated, and the papillae can be seen through the coating. There is no rash to be seen on the body. What provisional diagnosis would you make?

SURGERY. — Professor BURRELL.

1. Give the pathological anatomy and treatment of congenital club-foot.

2. The causes and symptoms of intra-abdominal hemorrhage.
3. The treatment of acute intestinal obstruction.
4. The symptoms of pyloric obstruction.
5. Enumerate the classical signs of a fracture.
6. Describe the reduction of a subcoracoid dislocation of the humerus.
7. Give the differential diagnosis of a femoral hernia.
8. The symptoms and treatment of a fissure of the anus.
9. What is a cirsoid aneurism?
10. Diagnosis and treatment of a pre-patella bursitis.

CLINICAL SURGERY.—Professor Richardson.

1. Miss K. S., aged 18, began about four months ago to have abdominal pain. Since that time she has had in all five or six attacks. The last attack began three days ago, at 11.30 P.M., waking her from a sound sleep. The pain came on suddenly, and was severe and sharp. It was felt in the epigastrium, and radiated to both sides and to the right shoulder-blade. It doubled her up, so that she could not lie down. When she bent forward the pain was somewhat relieved. She was nauseated, but did not vomit. Her physician saw her seven hours later, when she was having paroxysms of pain, each lasting about five minutes, with a remission of about the same duration. The temperature was normal; the pulse 78. Morphia gr. $\frac{3}{8}$ by mouth gave no relief. $\frac{1}{4}$ gr. morphia given subcutaneously stopped all pain. This morning there was a mild attack of similar pain. In previous attacks there has been no jaundice. Between these attacks the patient has felt fairly well. At first the attacks lasted from one to two hours. Nothing abnormal has ever been found in the stools.

The patient has had no serious illnesses, and the family history is good.

Physical Examination.—The patient's general condition is excellent. The cheeks are full of color, and she is typical of splendid and robust health. She is well developed and well nourished—in fact, rather stout. There is tenderness on deep pressure all over the epigastrium, but nothing abnormal can be felt. The skin is distinctly jaundiced; the conjunctivae are yellow. There is bile in the urine, which is in other respects normal. The stools are light colored and contain no bile. The heart and lungs are normal.

Discuss, as fully as time permits, the diagnosis and the prognosis; the indications for treatment and the contra-indications.

What would you advise in such a case?

If you advise operation, what will you say to the patient or to her friends as to its dangers and its probable results?

What will you say if you advise against operation?

2. A woman of 35, in the fall of 1906, had been under care of an osteopathic physician, who treated her for pain in the neck and spine. During this treatment a nodule appeared in the left breast. The patient showed this bunch to a woman who promised to absorb it. The family physician saw the breast for the first time in October, 1907. The whole breast was then infiltrated and hard, and the nipple was retracted. The left axilla contained many enlarged lymph nodes. During the summer of 1907 the patient went to the mountains on account of pain in the left hip

and in the back of the neck, which was supposed to be rheumatism, and which was so severe as to prevent her walking much. At this time she was seen by one of the Visiting Surgeons of the Massachusetts General Hospital, who declined to operate. The pain in the back increased, till the patient could not move without feeling it. The infiltration in the breast slowly increased. On cross-examination it appeared that she came of a strong and healthy family, and had never had any serious illness. She had never been pregnant, nor had she ever injured the breast. The bunch first appeared as a small nodule, and was treated by the osteopath by manipulation of the left arm.

On account of some thoracic symptoms, an eminent physician of the Massachusetts General Hospital was called to examine the heart and lungs. He raised some question as to a pleurisy with effusion.

In the course of the winter the condition of the breast grew slowly worse. On March 9, 1908, the attending physician called a second surgeon for an independent opinion. At this time the whole left breast was found to be infiltrated beyond its margin. The left axilla contained a few enlarged lymph-glands. Nothing abnormal was found in the thorax. The knee-jerks were lively. There was clonus in the right ankle.

The surgeon was anxious in this distressing case to interpose an operation. The patient had been recently and happily married, and had everything to live for. The tumor was within the possible limits of easy extirpation, though it would not be possible to cover in the wound with skin.

There was some doubt, in the opinion of an expert of the highest skill, about metastasis in the lungs.

On the following day (March 10) an expert in neurology saw the patient. In his opinion there was a metastasis pressing upon the spinal cord, but there was no absolute proof of this.

What would you have advised in this case? Give your reasons.

OBSTETRICS. — Professor Green.

1. What changes normally take place in the foetal circulation after the cessation of the placental circulation at birth? What is the clinical evidence of a failure of these changes to take place?

2. Outline the several procedures by which a diagnosis of breech presentation is made. What are the sources of error in the vaginal examination? What is the foetal mortality in breech delivery?

3. How may one make during labor a presumptive diagnosis of abnormal shortness of the funis? What may be the results of this anomaly to mother and child? What treatment is indicated?

4. Make the differential diagnosis between tubal pregnancy, hydatidiform mole, and impending miscarriage in a normal pregnancy.

5. What are the legitimate general indications for therapeutic abortion? Mention specific conditions under the respective indications, in the presence of which the induction of abortion is justifiable.

6. In what ways may fistulae between the bladder and the genital tract result from parturition? How may a consultant determine in any case the cause of a vesico-vaginal fistula?

7. State briefly the normal mechanism of labor in O. D. P. position of head presentation. What factors are essential to this mechanism? In the absence of these factors, by what measures may the normal mechanism be promoted?

8. What are the two chief types of pelvic contraction? In the minor degrees of these two types, in which delivery takes place without instrumentation, in what way is the type of contraction shown by the mechanism of labor?

9. In what ways may breast abscess be caused during lactation, other than by infection through the nipple?

10. What are the most frequent causes of fever in the puerperium, other than infections of the genital tract? In what ways may the day of the invasion and the character of the temperature chart assist in the differential diagnosis?

GYNAECOLOGY. — Professor Green.

1. Pruritus vulvae: aetiology and treatment?

2. Compare the methods of invasion of the genital tract by the streptococcus and the gonococcus respectively. Compare the natural defenses against these organisms, and the ultimate results to life and health.

3. Non-tubercular pelvic inflammation in acute and chronic types: symptoms; diagnosis; medical and non-surgical treatment?

4. Non-adherent retroversion of the uterus: methods of replacement, and of retention in normal position?

5. Give the regional classification of myoma of the corpus uteri. What are the chief symptoms, and how do the symptoms vary according to the classification of the myoma? How are pregnancy and parturition affected according to the seat of the tumor?

DERMATOLOGY. — Professor Bowen.

1. Erythema multiforme.

2. Enumerate and describe the four well recognized forms of cutaneous tuberculosis.

3. Give specific directions for the treatment of a family of five who have all contracted scabies.

4. Herpes Zoster.

5. The different forms of alopecia and their treatment.

SYPHILIS. — Asst. Professor Post.

1. What are the points in the diagnosis of chancre of the genitals? What other lesions must be considered?

2. What circumstances would arouse suspicion of inherited syphilis in a half-grown child?

3. Give the applications of Potassic Iodide; its dosage and its disadvantages.

NEUROLOGY. — Professor PUTNAM.

1. (*a*) What is the Argyll-Robertson pupil? In what diseases does it occur?
   (*b*) Result of complete paralysis of third nerve on one side?
   (*c*) Location of lesion producing hemianopsia? (Diagram.)
2. Condition of knee-jerk in: —
   (*a*) Polyneuritis.
   (*b*) Cerebral apoplexy.
   (*c*) Ataxic paraplegia (early stage).
   (*d*) Poliomyelitis, involving the arms alone.
   (*e*) Myelitis (transverse).
3. Is sensibility disturbed, and why (answer briefly), in: —
   (*a*) Neuritis?
   (*b*) Tabes dorsalis?
   (*c*) Syringomyelia?
   (*d*) Amyotrophic lateral sclerosis?
   (*e*) Cerebral apoplexy from capsular lesion?
4. What is the essential nature of hysteria? Illustrate by examples.

PSYCHIATRY. — Dr. COWLES.

1. Describe briefly the reflex arc: its constituent parts, and the process of conduction; and mention some of the symptoms that may indicate a difference of level of the receptive and effective thresholds.

2. How may certain symptoms of the melancholia-mania group of psychoses be explained by reduction of the inhibitory forces?

3. What are the chief differential characteristics of the melancholia-mania and the dementia praecox groups of psychoses?

4. CASE. — A woman, age 25; married; housewife; born in Ireland; father intemperate, mother is insane; educated in public schools and Convent; has two children, the youngest four months old; habits good; no serious illnesses. First attack of insanity. Physician's certificate for commitment to hospital: Patient has been depressed and excited since birth of baby four months ago; spends much time in praying; does not eat; will not try to have movements of the bowels, nor in last few hours, to pass urine; fearful of death. Her expression and manner indicate mental depression.

Admitted to Boston Insane Hospital October 19, 1907. The records show that the physical examination was negative; well developed and appeared well nourished. On admission much excited; refused to enter the door and was carried in and laid on a bed. After a few minutes she relaxed and asked for a warm drink; then became friendly and confidential; no hallucinations nor delusions except thinking she was about to die.

October 20, 1907, she became excited and was taken to the excited ward. The next morning she was pleasant, admitting that she was foolish to get excited, but still the idea that she is to die hangs over her like a cloud. She is well oriented; talks rationally on every topic except her impending death. Worries lest her mother will find out where she is.

October 23, 1907. Has been quiet since last note though excited the day before; has strong delusions of impending calamity and becomes emotional when reference is made to it.

November 21, 1907. The patient is quiet, depressed, shows psychomotor retardation, reticent and can not be led into any extended conversation. Her answers to questions are retarded and often there is no answer. Consciousness apparently not clouded and orientation probably good. Later, on this date, the condition as above described was noted in a special examination. Some of the points of interest were reported as follows: To the examiner the patient appeared to be in a very good physical condition, but her depression was very marked. When asked how she was feeling, she did not reply. ("Do you feel well?") After some delay she answered "No." There was like delay in answering other questions. On taking her hand she did not resist. Later, when asked to give her hand, after a little time she did so. When reference was made to her baby her face immediately flushed and her eyes filled with tears. She could not be led to say anything more. When she was to be taken back to the ward she at first refused, saying "I do not want to go there." Being asked if she would like to go home she made no answer. Her gait was very slow. There has been no sufficient evidence of automatism, katotonic attitudes, negativism, or mutism.

Give diagnosis, an analysis of the symptom-complex, and prognosis.

OPHTHALMOLOGY. — Asst. Professor Standish.

1. Iritis. Etiology; clinical history; and treatment.
2. What diseases cause night blindness?
3. Phlyctenular conjunctivitis. Description and treatment.
4. Sympathetic ophthalmitis.
5. Convergent strabismus. Varieties; treatment.

OTOLOGY. — Professor Blake.

1. Describe the structure of the drum head.
2. Give the functions of the intra-tympanic muscles.
3. Give the symptoms, objective and subjective, of prolonged closure of the tympano-pharyngeal tube.
4. Give the pathologic sequence in acute suppurative disease of the middle ear.
5. Give the symptoms of acute involvment of the mastoid.
6. In suppurative invasion of the labyrinth what symptoms indicate implication of the semicircular canals.

LARYNGOLOGY. — Asst. Professor Coolidge.

1. The causes and treatment of recurrent epistaxis.
2. Describe atrophic rhinitis.
3. What is the grouping of the anterior ethmoid cells.
4. The etiology, prognosis and treatment of peritonsillar abscess.
5. In what way may systemic infection occur through the lymphoid ring of the fauces.
6. The diseases which cause chronic ulceration of the larynx, and their differential diagnosis.

THE MEDICAL SCHOOL

Courses for Graduates

1907–08*

Aldrich, Walter Johnson, M.D. (*Bellevue Hospital Medical Coll.*) 1893,	*St. Johnsbury, Vt.*
Ballance, Charles, M.D. (*Coll. of Phys. and Surg., Chicago*) 1906,	*Tacoma, Wash.*
Barber, George Holcomb, S.B. (*Boston Univ.*) 1885, M.D. (*Columbia Univ.*) 1888,	*Chelsea.*
Beck, Horace Palmer, M.D. (*Univ. of Pennsylvania*) 1897, D.D.S. (*ibid.*) 1898,	*Newport, R. I.*
Belknap, James Lyman, S.B. (*Dartmouth Coll.*) 1898, M.D. (*Harvard Med. Sch.*) 1902,	*Washington, D. C.*
Bommarito, Paolo, M.D. (*Univ. of Palermo*) 1884,	*Boston.*
Brainerd, John Bliss, M.D. 1884,	*Boston.*
Brown, Herbert Rutherford, S.B. (*Univ. of Rochester*),	*Jamaica Plain.*
Campbell, Franklin Edward, M.D. 1902,	*Manchester, N. H.*
Carey, Francis Arthur, M.D. (*Baltimore Med. Coll.*) 1905,	*Taunton.*
Carvill, Lizzie Maud, A.B. (*Tufts Coll.*) 1899, M.D. (*ibid.*) 1905,	*Somerville.*
Cheever, Nathaniel Fremont, M.D. (*Univ. of Vermont*) 1883,	*Greenfield, N. H.*
Chipman, Harry Edgar Harrison,	*Boston.*
Clark, William Irving, Jr., A.B. (*Columbia Univ.*) 1900, M.D. (*ibid.*) 1904,	*Worcester.*
Cunningham, Thomas Edward, M.D. 1876,	*Cambridge.*
Curry, Edmund Farnham, M.D. 1896,	*Fall River.*
DeLue, Frederick Spaulding, M.D. 1894,	*Needham.*
DeNormandie, Robert Laurent, A.B. 1898, M.D. 1902,	*Boston.*
Doull, Arthur Ernest, M.D.C.M. (*McGill Univ.*) 1900,	*Stoneham.*

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* Entering after the issue of the Catalogue of 1907–08.

Emerson, Charles Sumner, M.D. (*Univ. of the City of New York*) 1886,	*Watertown.*
French, William Joseph, M.D. (*George Washington Univ.*) 1905,	*Washington, D. C.*
Grant, Dick, S.B. 1897,	*St. Mary's, Canada.*
Gillies, George Ernest, M.D., C.M. (*McGill Univ.*) 1906,	*Teeswater, Canada.*
Jackson, Oliver Howard, M.D. (*Long Island Coll. Hosp.*) 1894,	*Fall River.*
Jacobson, Edmund,	*Chicago, Ill.*
Kennison, Frederick Marshman, M.D. (*Tufts Med. Sch.*) 1905,	*Dorchester.*
Ladd, Ira Bourlande, M.D. (*Cooper Med. Coll.*) 1896,	*Stockton, Cal.*
Lothrop, Oliver Ames, A.B. 1903,	*Boston.*
Luhr, Alfred Francis, M.D. (*Jefferson Med. Coll.*) 1905,	*St. Marys, Pa.*
McCarthy, Thomas Horatio, M.D. 1890,	*Brockton.*
MacLeod, Norman Murray, A.B. 1902, M.D. 1905,	*Newport, R. I.*
MacPherson, Warren, S.B. 1907, A.M. 1908,	*Bridgeton, N. J.*
Nowlin, John Burton, M.D. (*Coll. of Phys. and Surg., Baltimore*) 1896,	*Buckingham, Va.*
O'Connor, John Christopher, S.B. (*Dartmouth Coll.*) 1902, M.D. (*Med. Sch. of Maine*) 1905,	*Bradford.*
Pratt, Frederick Haven, A.M. 1898, M.D. 1906,	*Worcester.*
Ramstad, Niles Oliver, M.D. (*Univ. of Minnesota*) 1899,	*Bismarck, No. Dak.*
Richardson, Russell, A.B. (*Princeton Univ.*) 1904,	*Brookline.*
Rushmore, Stephen, A.B. (*Amherst Coll.*) 1897, M.D. (*Johns Hopkins Med. Sch.*) 1902,	*Boston.*
Shiley, George Francis, M.D. (*Coll. of Medicine, Univ. of Iowa*) 1903,	*Missouri Valley, Ia.*
Spencer, John Blair, A.B. (*William and Mary Coll.*) 1900, M.D. (*Univ. Coll. of Med., Va.*) 1904,	*Williamsburg, Va.*
Stanwood, Frederic Arthur, A.B. (*Bowdoin Coll.*) 1902, M.D. (*Harvard Med. Sch.*) 1907,	*Wellesley.*
Sweeney, John Walter, M.D. (*Yale Med. Sch.*) 1907,	*New Haven, Conn.*
Tenney, Elmer Seth, B.L. (*Dartmouth Coll.*) 1894, M.D. (*ibid.*) 1897,	*Boston.*
Toulon, Alfred Joseph, M.D. (*Medico-Chirurgical Coll., Phila.*) 1906,	*Philadelphia, Pa.*
Walker, Ernest Linwood, B.A.S. 1896, S.B. 1903, S.D. 1907,	*Jamaica Plain.*

Walker, John James, A.B. (*McGill Univ.*) 1902, M.D., C.M. (*ibid.*) 1906,	*Ormstown, Canada.*
Wilcox, Henry Williams, M.D. (*Univ. of Colorado*) 1897,	*Denver, Colo.*
Williams, David Lawrence, A.B. (*Boston Coll.*) 1907, M.D. (*Tufts Med. Sch.*) 1906,	*Boston.*

1908–09

Aiken, Thomas Francis, M.D. (*Univ. of Pennsylvania*) 1894,	*Boston.*
Arnold, Douglas Perkins, M.D. (*Univ. of Buffalo*) 1908,	*Buffalo, N. Y.*
Baker, Roscoe Chase, A.B. (*Yale Univ.*) 1900, M.D. (*Denver and Gross Med. Sch.*) 1907,	*Billerica.*
Beach, Sylvester Judd, A.B. 1901, M.D. 1905,	*Augusta, Me.*
Beck, Clyde McKay, PH.G. (*Univ. of the South*) 1906, M.D. (*Coll. of Phys. and Surg., Memphis*) 1908,	*Memphis, Tenn.*
Berry, William Christopher, M.D. (*Tufts Med. Sch.*) 1907,	*Charlestown.*
Bostock, Gertrude Dorman, B.S. (*Glasgow Univ.*) 1900, M.B.CH.B. (*ibid.*) 1903,	*Boston.*
Brooks, Fletcher Hastings, S.B. (*Trinity Coll., N. C.*) 1896, M.D. (*Baltimore Med. Coll.*) 1902,	*Baltimore, Md.*
Callahan, John Francis, M.D. (*Tufts Med. Sch.*) 1906,	*Brockton.*
Carboni, Giovanni, M.D. (*Univ. of Naples*) 1892,	*Boston.*
Cook, Edward Chase, M.D. (*Med. Sch. of Maine*) 1894,	*York Village, Me.*
Courtney, Angelia Martha, A.B. (*Radcliffe Coll.*) 1906,	*Concord.*
Darling, Byron Clary, A.B. (*Illinois Coll.*) 1898, M.D. (*Harvard Med. Sch.*) 1903,	*New York, N. Y.*
Derby, Frederick William, M.D. (*Tufts Med. Sch.*) 1905,	*Arlington.*
Farmer, Chester Jefferson,	*Andover.*
Faxon, Nathaniel Wales, A.B. 1902, M.D. 1905,	*Stoughton.*
FitzGerald, John Gerald, M.B. (*Toronto Univ.*) 1903,	*Toronto, Can.*
Garrett, Frank Steele, M.D. (*Baltimore Med. Coll.*) 1898,	*Chelsea.*
Grant, William Herbert, M.D. 1896,	*Boston.*

Guild, Frederick Washburn,	*Roslindale.*
Halterman, Charles Warner, M.D. (*Eclectic Med. Institute, Cincinnati*) 1889,	*Clarksbury, W. Va.*
Jee, Shin Fwe Pond Mooar, M.D. (*Univ. of California*) 1908,	*San Francisco, Cal.*
Jordan, William Henry, M.D. (*Maryland Med. Coll.*) 1901,	*Providence, R. I.*
Kober, Philip Adolph,	*Freedom, Pa.*
Little, Stillman David, M.D. (*Bowdoin Med. Sch.*) 1903,	*Caribou, Me.*
Long, Alfred Dow, M.D. 1907,	*Berkeley, Cal.*
McEvoy, George Albert, M.D. 1899,	*Roxbury.*
McFee, William David, M.D. (*Univ. of Vermont*) 1897,	*Haverhill.*
Mahoney, Stephen Andrew, A.B. (*Holy Cross Coll.*) 1885, M.D. (*Harvard Med. Sch.*) 1889,	*Holyoke.*
Manrique, Francisco Jil,	*Bogota, Colombia, S. A.*
Morrison, John Sheppard, M.D. (*Med. Coll. of Ohio*) 1897,	*Lafayette, Ind.*
Myers, Samuel William, M.D. 1902,	*Boston.*
Pettibone, Chauncey J. Vallette, S.B. (*Univ. of Chicago*) 1907,	*Evanston, Ill.*
Riemer, Hugo Bruno Carl, A.B. (*Bucknell Univ.*) 1906, M.D. (*Harvard Med. Sch.*) 1904,	*Norwood.*
Sears, Frederic William, M.D. (*Univ. of Vermont*) 1888,	*So. Hero, Vt.*
Sheldon, William Hills, M.D. (*Cornell Univ. Med. Sch.*) 1906,	*New York, N. Y.*
Sturtevant, Charles Alton, M.D. (*Boston Univ. Sch. of Med.*) 1899,	*Manchester, N. H.*
Talbot, Fritz Bradley, A.B. 1900, M.D. 1905,	*Boston.*
Washburn, Chester Angus, M.D. (*Hahnemann Med. Coll.*) 1908,	*Everett.*
Young, Tilden Hendricks, M.D. (*Tulane Univ.*) 1903,	*Bedford, Ala.*

Fourth Class

Almy, Thomas, A.B. 1905,	*Fall River.*
Bowditch, Harold, A.B. 1905,	*Jamaica Plain.*
Brigham, Francis Gorham, S.B. (*Colgate Univ.*) 1905,	*Flushing, N. Y.*
Burns, Newell Bly, A.B. 1905,	*Danvers.*

Cornish, Solon Washington, A.B. (*Dartmouth Coll.*) 1905,	*Boston.*
Crothers, Bronson, A.B. 1905,	*Cambridge.*
Crowley, Thomas Francis, A.B. (*Boston Coll.*) 1903,	*Holliston.*
Davis, Nelson Clifton, S.B. 1905,	*Providence, R.I.*
Dennen, Ralph Waite, A.B. 1905,	*Waltham.*
Fitz, Reginald, A.B. 1906,	*Boston.*
Fox, Michael Bernard, A.B. (*Clark Univ.*) 1905,	*Worcester.*
Garfield, Walter Thompson, S.B. 1906,	*Cambridge.*
Ghoreyeb, Albert Alphonso Wood, A.B. (*Syrian Protestant Coll.*) 1904,	*Jaffa, Syria.*
Greeley, Hugh Payne, A.B. 1906,	*Cambridge.*
Hall, Reverdy Morriss, Jr., A.B. 1905,	*Baltimore, Md.*
Healey, John Joseph, PH.B. (*Brown Univ.*) 1905,	*Providence, R.I.*
Hendricks, Henning Vitalis, S.B. (*Worcester Polytechnic Inst.*) 1903,	*Holden.*
Hepburn, James Joseph, A.B. 1906,	*Somerville.*
Hermann, Otto John, A.B. 1906,	*Roxbury.*
Hinds, Robert Watson, A.B. 1905,	*Allston.*
Howard, Arthur Allison, PH.B. (*Brown Univ.*) 1905,	*Dorchester.*
Hunt, Roscoe Cadwell, A.B. (*Carleton Coll.*) 1905,	*Blue Earth, Minn.*
Kennedy, Philip Thomas, A.B. (*Trinity Coll.*) 1905,	*Hartford, Conn.*
Kilgore, Eugene Sterling, S.B. (*Univ. of California*) 1904,	*Fruitvale, Cal.*
Lamson, Paul Dudley, A.B. 1905,	*Worcester.*
Laskey, Edward Philip, S.B. (*Dartmouth Coll.*) 1904,	*Dover, N.H.*
Lyons, George Aloysius, A.B. (*Boston Coll.*) 1905,	*Winchester.*
McKenna, Edward Francis, A.B. (*Brown Univ.*) 1905,	*Providence, R.I.*
MacMillan, Andrew Louis, Jr., A.B. (*Dartmouth Coll.*) 1905,	*Hanover.*
Macomber, Donald, A.B. 1906,	*W. Newton.*
*Madden, John Joseph, PHARM.D. (*Mass. Coll. of Pharm.*) 1903,	*Worcester.*
Neill, Mather Humphrey, A.B. (*Amherst Coll.*) 1905,	*Pittsfield.*
Noonan, William Andrew, A.B. 1906,	*Cambridge.*
O'Keeffe, James Vincent, A.B. 1905,	*Revere.*

* Admitted by special vote of the Administrative Board.

Overlander, John Eliot, PH.B. (*Yale Univ.*) 1905,	*Hiawatha, Kan.*
Parker, Willard Stephen, A.B. 1906,	*Piqua, O.*
Patch, Arthur Lionel, A.B. (*Brown Univ.*) 1904,	*Stoneham.*
Pemberton, Frank Arthur, S.B. 1906,	*Boston.*
Power, George Aloysius, A.B. (*Holy Cross Coll.*) 1905,	*Worcester.*
Pratt, Horatio Whittemore, S.B. 1905,	*Grafton.*
Preble, William Emerson, A.B. (*Bowdoin Coll.*) 1898,	*Litchfield, Me.*
Reid, William Duncan, A.B. 1906,	*Newton.*
Rounseville, Wilfred Ellsworth, S.B. (*Amherst Coll.*) 1905,	*Attleboro.*
Sampson, Edwin Field, S.B. 1906,	*Newtonville.*
Smith, Harold Heber, A.B. (*Leland Stanford Jr. Univ.*) 1905,	*Worcester.*
Smyth, Duncan Campbell, A.B. (*St. Francis Xavier's Coll.*) 1905,	*Port Hood, N.S.*
Steinharter, Edgar Clifford, S.B. (*Mass. Inst. of Tech.*) 1906,	*Cincinnati, O.*
Swaim, Loring Tiffany, A.B. 1905,	*Cambridge.*
Titus, Raymond Stanton, A.B. 1905,	*No. Haverhill, N.H.*
Webster, Harrison Briggs, A.B. 1905,	*Cohasset.*
Wilkiemeyer, Frederick Joseph, A.B. (*Christian Brothers' Coll.*) 1904,	*Newport, Ky.*
Young, Edward Lorraine, Jr., A.B. 1906,	*No. Hanover.*

THIRD CLASS

*Austin, Richard Sisson,	*Providence, R.I.*
Balcom, Kenneth Ira, A.B. (*Colgate Univ.*) 1905,	*Northboro.*
Barkan, Hans, A.B. (*Leland Stanford Jr. Univ.*) 1905,	*San Francisco, Cal.*
Bortree, Leo Williams, A.B. (*Colorado Coll.*) 1906,	*Colorado Springs, Colo.*
Bowers, George Francis Haskell, A.B. 1906,	*Clinton.*
Brayton, Howard Wheaton, PH.B. (*Brown Univ.*) 1906,	*Providence, R.I.*
Burgess, Alexander Manlius, A.B. (*Brown Univ.*) 1906,	*Portland, Me.*
Burwell, Edmund Strudwick, PH.B. (*Univ. of No. Carolina*) 1906,	*Charlotte, N.C.*
Chase, Peter Pineo, PH.B. (*Brown Univ.*) 1906,	*Hyannis.*

* Admitted by special vote of the Administrative Board.

*Clarke, Harry Carver,	*Boston.*
Clarke, Oliver Holman, A.B. (*Leland Stanford Jr. Univ.*) 1906,	*Boston.*
Corcoran, George Bartlett, A.B. (*Brown Univ.*) 1906,	*W. Springfield.*
Cring, George V, S.B. (*Earlham Coll.*) 1906, A.B. (*Univ. of Michigan*) 1908,	*Portland, Ind.*
Cunningham, Thomas Edward, Jr., A.B. 1906,	*Cambridge.*
Cutler, George David, S.B. 1907,	*Brighton.*
Dages, Oren Newton, A.B. (*Princeton Univ.*) 1906,	*Columbus, O.*
Dane, Charles Murphy, A.B. 1906,	*Brookline.*
Dane, John Murphy, S.B. 1907,	*Brookline.*
Day, Alexander Alfred, A.B. (*Clark Univ.*) 1906,	*Everett.*
Draper, Warren Fales, A.B. (*Amherst Coll.*) 1906,	*Newton Highlands.*
Dunlap, Albert Menzo, A.B. (*Univ. of Illinois*) 1906,	*Savoy, Ill.*
Faison, Yates Wellington, A.B. (*Davidson Coll.*) 1906,	*Charlotte, N.C.*
Finney, Royal Houghtelin, A.B. (*Kansas Univ.*) 1907,	*La Junta, Colo.*
Forbes, Alexander, A.B. 1904, A.M. 1905,	*Milton.*
French, Ralph Winward, A.B. 1907,	*Fall River.*
Gaboury, George Napoleon, A.B. (*Yale Univ.*) 1907,	*Chicopee Falls.*
Gamble, James Lander, A.B. (*Leland Stanford Jr. Univ.*) 1906,	*Palo Alto, Cal.*
Gardner, Edwin Daniels, A.B. 1906,	*Holliston.*
Gerber, Isaac, A.B. 1907,	*Malden.*
Grady, James Edward, Jr., A.B. (*Holy Cross Coll.*) 1906,	*Clinton.*
Haigh, Gilbert William, A.B. 1907,	*Lawrence.*
Hamilton, Burton Everett, A.B. 1907,	*Roxbury.*
Harrington, Amos Thomson, A.B. (*Yale Univ.*) 1894, S.T.B. (*ibid.*) 1897,	*Jamaica Plain.*
Hegarty, Joseph Gordon, A.B. 1907,	*Somerville.*
Hellmann, Robert Richard, A.B. 1906,	*Cincinnati, O.*
*Heydemann, Martin,	*Boston.*
Howes, Frank Miller, A.B. 1907,	*Rockland.*
Hurley, Daniel Joseph, A.B. 1905,	*Charlestown.*

* Admitted by special vote of the Administrative Board.

Irving, Frederick Carpenter, A.B. 1906,	*Ogdensburg, N.Y.*
Jacques, Hector, A.B. (*Laval Univ.*) 1899,	*St. Hyacinthe, Can.*
Kelley, Clarence Moore, A.B. 1906,	*Milton, N.H.*
Kellogg, Foster Standish, A.B. 1906,	*Boston.*
Leonard, Ralph Davis, A.B. 1907,	*Melrose.*
Libby, Harold, A.B. 1907,	*Roxbury.*
Lightbody, William Russell, PH.B. (*Brown Univ.*) 1906,	*Manchester, N.H.*
*Lippman, Caro Wolf,	*San Francisco, Cal.*
MacAusland, Andrew Roy, S.B. 1907,	*Taunton.*
McCarty, James Joseph, Jr., A.B. 1907,	*Lowell.*
McCrossan, Charles Leo, A.B. 1907,	*Somerville.*
Madden, Leon Irving, A.B. (*Clark Univ.*) 1905,	*Agawam.*
Mahoney, Matthew Patrick, A.B. (*Georgetown Univ.*) 1906,	*Lowell.*
*Manton, Walter Williamson,	*Detroit, Mich.*
Marble, Henry Chase, A.B. (*Clark Univ.*) 1906,	*Worcester.*
Meader, Charles Nash, A.B. (*Colby Coll.*) 1906,	*Waterville,*
*Millard, Jean Sears,	*Brookline.*
Miller, Richard Henry, A.B. 1905,	*Fitchburg.*
Moore, George Albert, S.B. 1907,	*No. Monroe, N.H.*
Palmer, Walter Walker, S.B. (*Amherst Coll.*) 1905,	*Southfield.*
Parcher, George, A.B. (*Bowdoin Coll.*) 1906,	*Ellsworth, Me.*
Phillips, Charles Lewis, A.B. (*Bates Coll.*) 1906,	*Lewiston, Me.*
*Popoff, Constantine,	*Sliven, Bulgaria.*
Porter, Emery Moulton, PH.B. (*Brown Univ.*) 1906,	*Boston.*
Ryder, Charles Tripp, A.B. 1906,	*Andover.*
Shedd, George Harold, A.B. 1905,	*No. Conway, N.H.*
*Sheppard, Philip Albert Edward,	*Stellenbosch, Cape Town, So. Africa.*
Sparrow, Charles Atsatt, A.B. (*Amherst Coll.*) 1906,	*Mattapoisett.*
Tarleton, Leeson Oren, PH.B. (*Brown Univ.*) 1906,	*Concord, N.H.*
Terrell, Alexander Bismarck, S.B. (*Univ. of Chicago*) 1907,	*Fort Worth, Tex.*
Tron, Stanley Emanuel (*Royal Liceo Gioberti, Turin, Italy*) 1903,	*Turin, Italy.*
*Twombly, James Woodbury,	*Boston.*
Walsh, John Gormley, A.B. (*Brown Univ.*) 1906,	*Providence, R.I.*

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* Admitted by special vote of the Administrative Board.

SECOND CLASS

Abbott, John Woodward, A.B. (*Bates Coll.*) 1905,	*Lewiston, Me.*
Achorn, Kendall Lincoln, S.B. 1903,	*Boston.*
Bacher, Johann Adolph, A.B. (*Leland Stanford Jr. Univ.*) 1899,	*San José, Cal.*
Bagg, Edward Parsons, Jr., A.B. (*Yale Univ.*) 1907,	*Holyoke.*
Bean, Charles Franklin Kingsbury, A.B. (*Tufts Coll.*) 1907,	*W. Medford.*
Birnie, Richard, Jr., S.B. 1907,	*Charleston, S.C.*
Blaisdell, John Harper, A.B. (*Dartmouth Coll.*) 1907,	*Winchester.*
Breslin, John George, A.B. 1908,	*Charlestown.*
Briggs, Asa Sheldon, PH.B. (*Brown Univ.*) 1907,	*Ashaway, R.I.*
Brown, Harold Learned, A.B. (*Brown Univ.*) 1907,	*Sioux City, Ia.*
*Bruce, Jacob Baldwin, Jr.	*Allston.*
Buckley, George Ambrose, A.B. (*Brown Univ.*) 1907,	*Brockton.*
Cahill, Harry Philip, A.B. (*Holy Cross Coll.*) 1907,	*Worcester.*
Chandler, Harold Beckles, A.B. (*Bowdoin Coll.*) 1907,	*W. Newton.*
Chickering, Henry Thorndyke, A.B. 1907,	*Somerville.*
*Christian, Andreas Forest,	*Boston.*
Clark, Frank Robinson, A.B. (*Wesleyan Univ.*) 1900.	*Woburn.*
Clark, William Arthur, A.M. (*Univ. of Illinois*) 1907,	*Urbana, Ill.*
Clymer, George, A.B. 1905,	*Washington, D.C.*
Cochrane, Robert Carlyle, S.B. (*Dartmouth Coll.*) 1907,	*Somerville.*
Cogswell, Eliot Sanborn, A.B. (*Dartmouth Coll.*) 1906,	*Stratford, Conn.*
Collins, Joseph Daniel, S.B. (*Purdue Univ.*) 1905,	*Northampton.*
Crabtree, Harvard Hersey, A.B. 1907,	*Hancock, Me.*
*Cronin, Herbert Joseph,	*Boston.*
Dawson, Roger Paul, A.B. (*Holy Cross Coll.*) 1907,	*Waterbury, Conn.*

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* Admitted by special vote of the Administrative Board.

Dempsey, James Edward, A.B. (*Holy Cross Coll.*) 1906,	*Milford.*
Dixon, Patrick Joseph Harkins, A.B. (*Holy Cross Coll.*) 1895,	*Boston.*
Dulligan, Peter James, A.B. (*Holy Cross Coll.*) 1907,	*Worcester.*
Duston, Frank Algar, A.B. (*Univ. of New Brunswick*) 1898,	*St. Stephen, N.B.*
Emerson, Paul Waldo, A.B. 1907,	*Cheyenne, Wyoming.*
Enos, John Silveira, A.B. (*Brown Univ.*) 1907,	*Providence, R.I.*
Eustis, Richard Spelman, A.B. 1907,	*Cambridge.*
Eversole, George Edwin, A.B. 1907,	*Seattle, Wash.*
Feeley, Walter Clarence, A.B. 1908,	*Cambridge.*
Finnegan, Frank Augustine, A.B. (*Holy Cross Coll.*) 1907,	*Lowell.*
Finnegan, Philip Joseph, A.B. 1908,	*Salem.*
Forbes, Henry Stone, A.B. 1905,	*Milton.*
Frank, Morris, A.B. 1908 (1907),	*Boston.*
Fraser, Somers, A.B. 1907,	*E. Weymouth.*
Gaunt, Frank Peyton, A.B. (*Univ. of Missouri*) 1906,	*Roslindale.*
Greenebaum, Jacob Victor, A.B. 1908 (1907),	*Cincinnati, O.*
Grover, Joseph Isaac, A.B. (*Brown Univ.*) 1907,	*Providence, R.I.*
Gruening, Ernest Henry, A.B. 1907,	*New York, N.Y.*
Haight, Harry William, A.B. (*Princeton Univ.*) 1907,	*Mendota, Ill.*
Hammond, John Wilkes, Jr., A.B. (*Dartmouth Coll.*) 1907,	*Cambridge.*
Harris, Herbert Elisha, A.B. (*Brown Univ.*) 1907,	*Providence, R.I.*
Harvie, Peter Lyons, A.B. 1908,	*Everett, Wash.*
Hedblom, Carl Arthur, A.B. (*Colorado Coll.*) 1907, A.M. (*ibid.*) 1908,	*Aurora, Neb.*
Hill, Prescott Tillinghast, A.B. (*Brown Univ.*) 1906,	*Providence, R.I.*
Hornor, Albert Aurelius, A.B. (*Univ. of Virginia*) 1907,	*Helena, Ark.*
Houghton, James Tilley, A.B. 1908,	*Saratoga Springs, N.Y.*
Hunt, Robert Bates, A.B. (*Clark Univ.*) 1907,	*Brockton.*
Jennings, Alpheus Felch, A.B. (*Univ. of Michigan*) 1907,	*Detroit, Mich.*
Joslyn, Arthur Everett, S.B. (*Northwestern Univ.*) 1903, A.M. (*Harvard Univ.*) 1904,	*Marengo, Ill.*
Knowlton, Charles Colby, A.B. (*Bowdoin Coll.*) 1906,	*Ellsworth, Me.*

Lazarus, Louis, A.B. 1906,	*Roxbury.*
Leland, George Adams, Jr., A.B. 1907,	*Boston.*
Lincoln, George Chandler, A.B. 1905,	*Worcester.*
Lindsay, John Crandall, A.B. (*Colby Coll.*) 1906,	*Waterville, Me.*
McCann, Charles Daniel, PH.B. (*Brown Univ.*) 1907,	*Brockton.*
McCarty, Franklin Bennett, S.B. (*Univ. of Notre Dame*) 1907,	*Lynn.*
MacMichael, Earle Haggett, A.B. (*Bowdoin Coll.*) 1907,	*E. Boston.*
Main, Roscoe Conkling, A.M. (*Univ. of Illinois*) 1907,	*Pittsfield, Ill.*
Marshall, Frank Fremont, A.B. 1907,	*Worcester.*
Means, James Howard, A.B. 1907,	*Boston.*
Miller, Alvah Strong, A.B. (*Univ. of Rochester*) 1907,	*Rochester, N. Y.*
Morrill, Ashley Baker, S.B. 1908,	*Concord, N.H.*
Mueller, Otto Henry, A.B. (*State Univ. of Iowa*) 1903,	*Iowa City, Ia.*
Murphy, John Joseph, A.B. (*Holy Cross Coll.*) 1907,	*Cambridge.*
Nelson, Luther Townsend, A.B. (*Boston Univ.*) 1905,	*Roxbury.*
*O'Donoghue, Edward John,	*Cambridge.*
O'Hare, James Patrick, A.B. 1908 (1907),	*Milton.*
O'Keefe, Edward Scott, A.B. 1907,	*Lynn.*
*Pattajo, Christ. Alexis (*College of Monastir, Abella, Macedonia*) 1902,	*Monastir, Roumania.*
Penix, John Harve, A.B. (*William Jewell Coll.*) 1906,	*Bowling Green, Mo.*
Percy, Karlton Goodsell, A.B. (*Yale Univ.*) 1907,	*Brookline.*
Perry, Harold Edgar, A.B. 1907,	*Brookline.*
*Peterson, Hugo Oliver,	*Worcester.*
Pierce, Glenn McKillips, PH.B. (*Westminster Coll.*) 1906,	*W. Elizabeth, Pa.*
Porter, Miles Fuller, Jr., A.B. (*Williams Coll.*) 1907,	*Fort Wayne, Ind.*
*Prescott, George Lincoln,	*Concord.*
Prizer, Edward Levis, A.B. 1908 (1907),	*So. Orange, N.J.*
Reed, Floyd Orton, S.B. (*Univ. of Rochester*) 1907,	*Berkshire, N. Y.*

* Admitted by special vote of the Administrative Board.

Reynolds, Ralph Leavitte, A.B. (*Colby Coll.*) 1906,	*Waterville, Me.*
Richards, Dexter Newell, A.B. (*Leland Stanford Jr. Univ.*) 1907,	*Gridley, Cal.*
Richardson, Russell, A.B. (*Princeton Univ.*) 1904,	*Brookline.*
Robinson, Henry Ashton, A.B. 1908,	*Hingham.*
Ruggles, Howard Edwin, A.B. (*Leland Stanford Jr. Univ.*) 1907,	*Ross, Cal.*
Sheldon, Russell Firth, A.B. 1907,	*Lynn.*
Smith, William David, A.B. 1899,	*Gardner.*
*Starr, Samuel,	*Roxbury.*
Stine, Dan Gish, A.B. (*Univ. of Missouri*) 1907,	*Tipton, Ind.*
Temple, William Franklin, Jr., A.B. 1908,	*Boston.*
Thompson, Austin Bassett, A.B. (*Williams Coll.*) 1907,	*Orange, N.J.*
Whidden, Rae Wygant, A.B. 1908,	*Portland, Ore.*
White, Paul Dudley, A.B. 1908,	*Roxbury.*
*Whitney, George Harold,	*Lexington, Ky.*

First Class

Alcuzar, Isaac, A.B. (*Univ. of Wisconsin*) 1908,	*Williamsport, Pa.*
Alter, Samuel Mitchell, A.B. 1909 (1908),	*Boston.*
Baker, Donald Vinton, A.B. 1908,	*Roxbury.*
Barton, Lyman Guy, Jr., A.B. (*Princeton Univ.*) 1908,	*Willsboro, N.Y.*
†Bauer, Louis Hopewell (*Harvard*),	*Jamaica Plain.*
Bedrossian, Edward Hagop, A.B. (*Anatolia Coll., Turkey*) 1904,	*Marsovan, Turkey.*
Behlow, William Wallace, A.B. (*Leland Stanford Jr. Univ.*) 1907,	*Redlands, Cal.*
Bell, Richard Dana, A.B. 1908,	*Somerville.*
Binney, George Hayward, Jr., A.B. 1908,	*Boston.*
Brennan, Daniel Clarke, A.B. 1907,	*Cambridge.*
Broderick, George Aloysius, A.B. (*Holy Cross Coll.*) 1903,	*Lenox.*
*Butler, Fergus Almy,	*Danvers.*
Coe, George Clifford, A.B. (*Leland Stanford Jr. Univ.*) 1908,	*Portland, Ore.*
†Coffin, Whitman King (*Harvard*),	*W. Medford.*

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Coller, Frederick Amasa, S.M. (*So. Dakota State Coll.*) 1908,	*Los Angeles, Cal.*
Comstock, Carl Rodney, A.B. 1908,	*Saratoga Springs, N. Y.*
Crabtree, Ernest Granville, PH.B. (*Univ. of Wooster*) 1906,	*Zanesville, O.*
Creamer, William Henry, A.B. (*Holy Cross Coll.*) 1907,	*Fall River.*
Donovan, Joseph Aloysius, A.B. (*Bates Coll.*) 1908,	*Houlton, Me.*
Elliott, Malcolm Robertson, A.B. (*Acadia Univ.*) 1908,	*Clarence, N.S.*
Farnsworth, Earle Edwin, A.B. (*Cornell Univ.*) 1903,	*Grand Island, Neb.*
Gage, Harry Alfred, A.B. (*Univ. of Oklahoma*) 1908,	*Pauls Valley, Okla.*
Grady, Thomas Francis, A.B. (*Holy Cross Coll.*) 1908,	*Clinton.*
Hackett, Lewis Wendell, A.B. 1905,	*Belmont, Cal.*
Hersam, Norman Paul, S.B. (*Univ. of California*) 1908,	*Stoneham.*
*Johnston, Frank Cliffe,	*Leasburg, N.C.*
*Jones, Ellis William,	*Boston.*
Knowlton, Don Jerome, A.B. 1908,	*Marion.*
Lacey, Walter Maurice, A.B. (*Williams Coll.*) 1908,	*Cheyenne, Wyo.*
Look, Percy Jonathan, A.B. (*Boston Univ.*) 1908,	*Farmington, Me.*
Lyman, Henry, A.B. 1901,	*Brookline.*
MacAdam, Guy James, A.M. (*Univ of New Brunswick*) 1904,	*Woodstock, N.B.*
Meyers, Alfred Edward, A.B. (*Leland Stanford Jr. Univ.*) 1907,	*Spokane, Wash.*
Minot, George Richards, A.B. 1908,	*Boston.*
†Murphy, Joseph Leroy (*Harvard*),	*Taunton.*
O'Shea, William Michael, A.B. (*Gonzaga Coll.*) 1907,	*Spokane, Wash.*
Parker, Raymond Brewer, S.B. (*Dartmouth Coll.*) 1908,	*Reading.*
Porter, Donald Wallace, A.B. (*Yale Univ.*) 1908,	*New Haven, Conn.*
*Pratt, Ezekiel,	*Cohasset.*
†Rackemann, Francis Minot (*Harvard*),	*Readville.*
Ramsey, Wayne Stevenson, A.B. (*Washington and Jefferson Coll.*) 1908,	*Coraopolis, Pa.*

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Reggio, André William, A.B. 1908,	*Boston.*
Reid, Henry Squire, PH.B. (*Syracuse Univ.*) 1907,	*Rome, N. Y.*
Richardson, Clarence Hudson, A.B. (*Lincoln Univ.*) 1901,	*Philadelphia, Pa.*
Richardson, Henry Stephen, A.B. (*Amherst Coll.*) 1904,	*Franklin.*
Riley, William Bernard, A.B. (*Holy Cross Coll.*) 1905,	*Central Falls, R.I.*
Rogers, Orville Forrest, Jr., A.B. 1908,	*Dorchester.*
Rounsefell, Clifford George, A.B. 1907,	*Cambridge.*
Russell, John Scott, A.B. (*Williams Coll.*) 1907,	*Massena, N. Y.*
Sauter, Albert Lawrence, A.B. (*Pennsylvania Coll.*) 1908,	*Connellsville, Pa.*
Smillie, Wilson George, A.B. (*Colorado Coll.*) 1908,	*Eaton, Colo.*
Talbot, John Edward, A.B. 1902, LL.B. 1905,	*Holliston.*
Ten Broeck, Carlon, A.B. (*Univ. of Illinois*) 1908,	*Parsons, Kan.*
Thomas, Charles Francis, Jr., A.B. (*Bowdoin Coll.*) 1907,	*Caribou, Me.*
Tribou, Howard Arthur, S.B. (*Colby Coll.*) 1908,	*Rockport, Me.*
†Wilson, Philip Duncan (*Harvard*),	*Columbus, O.*
Woody, MacIver, A.B. (*Richmond Coll.*) 1905, A.B. (*Harvard Univ.*) 1907,	*Louisville, Ky.*

SPECIAL STUDENTS.

*Allen, Larned Van Patten,	*Davenport, Ia.*
*Badal, Elijah Baba,	*Webster.*
Doherty, Francis Joseph,	*Woburn.*
*Morse, Sterne,	*Brookline.*
Perlstein, Isidor,	*Cassel, Hessen, Ger.*
Ring, Dennis Joseph, LL.B. (*Boston Univ. Sch. of Law*) 1908,	*Lowell.*
Ring, William Dominic, LL.B. (*Boston Univ. Sch. of Law*) 1908,	*Lowell.*
*Rockey, Eugene Watson,	*Portland, Ore.*
*Shenudah, Selim,	*Senoures, Fayoum, Egypt.*
*Symonds, Cleon Walter,	*Waltham.*
*Wesselhoeft, Conrad,	*Cambridge.*

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THE SUMMER SCHOOL OF MEDICINE

Achorn, Kendall Lincoln, S.B. 1903,	*Boston.*
Adams, Martin Eugene, PHARM.D. (*Mass. Coll. of Pharmacy*) 1902,	*Boston.*
Altree, George Herbert, M.D. (*Baltimore Med. Coll.*) 1893,	*Tampa, Fla.*
Anderson, Wilhelm Sigurd, M.D. (*Univ. of Minnesota*) 1903,	*Warren, Minn.*
Austin, Richard Sisson,	*Boston.*
Baker, Albert Taylor, M.D. (*Iowa State Univ.*) 1876,	*Vienna, Mo.*
Baker, Walter Eugene, M.D. (*Drake Univ. Coll. of Med.*) 1907,	*Des Moines, Ia.*
Balboni, Gerardo Monari, M.D. 1904,	*Boston.*
Beck, Clyde McKay, PH.G. (*Univ. of the South*) 1906, M.D. (*Coll. of Phys. and Surg., Memphis*) 1908,	*Memphis, Tenn.*
Beebe, Silas Palmer, S.B. (*Valparaiso Coll.*) 1896, S.B. (*Harvard Univ.*) 1900, M.S. (*Yale Univ.*) 1902, PH.D. (*ibid.*) 1904,	*Flushing, N.Y.*
Begg, Alexander Swanson, M.D. (*Drake Univ. Coll. of Med.*) 1907,	*Des Moines, Ia.*
Berry, Elmer, S.B. (*Univ. of Nebraska*) 1901,	*Springfield.*
Bland, Leonard F., S.B. (*Agric. Mechanical Coll. of Texas*) 1899, M.D. (*Memphis Hosp. Med. Coll.*) 1904,	*Port Arthur, Tex.*
Boardman, William Parsons, A.B. 1902, M.D. 1905,	*Boston.*
Bowers, George Francis Haskell, A.B. 1906,	*Clinton.*
Bradley, Charles Henderson, M.D. 1902,	*No. Adams.*
Brayton, Howard Wheaton, PH.B. (*Brown Univ.*) 1906,	*Providence, R.I.*
Brennan, John Joseph, M.D. 1886,	*Worcester.*
Bryant, Giles Waite, M.D. (*Dartmouth Med. Coll.*) 1882,	*Somerville.*
Bunce, Philip Dibble, A.B. (*Yale Univ.*) 1888, M.D. (*Columbia Univ.*) 1891,	*Hartford, Conn.*
Burgess, Alexander Manlius, A.B. (*Brown Univ.*) 1906,	*Portland, Me.*

Carey, Willis Walton,	*Fort Wayne, Ind.*
Cartin, Harry James, M.D. (*Jefferson Med. Coll.*) 1901,	*Johnstown, Pa.*
Chase, Peter Pineo, PH.B. (*Brown Univ.*) 1906,	*Hyannis.*
Clark, Elbert, S.B. (*Univ. of Arkansas*) 1903,	*Waldo, Ark.*
Clark, John Aloysius, A.B. (*Santa Clara Coll.*) 1901, M.D. (*Univ. of California*) 1907,	*Gilroy, Cal.*
Cody, Claude Carr, A.B. (*Southwestern Univ.*) 1904, A.M. (*ibid.*) 1905,	*Georgetown, Tex.*
Conro, Arthur Clifton, A.B. (*Harvard Univ.*) 1893, M.D. (*Chattanooga Med. Coll.*) 1901,	*E. Longmeadow.*
Corbett, J. Frank, M.D. (*Univ. of Minnesota*) 1896,	*Minneapolis, Minn.*
Cowan, John Rice, M.D. 1894,	*Danville, Ky.*
Cunningham, Thomas Edward, Jr., A.B. 1906,	*Cambridge.*
Curtis, Charles Leverett,	*Middleton.*
Cutler, Charles Newton, M.D. 1898,	*Chelsea.*
Dages, Oren Newton, A.B. (*Princeton Coll.*) 1906,	*Columbus, O.*
Daly, Timothy Joseph, M.D. 1897,	*Lawrence.*
Dane, Charles Murphy, A.B. 1906,	*Brookline.*
Dane, John Murphy, S.B. 1907,	*Brookline.*
Davis, George Anthony, M.D. (*Jefferson Med. Coll.*) 1903,	*Lynn.*
Davis, Stephen Rich, M.D. (*Univ. of Vermont*) 1896,	*Lynn.*
DeBuys, Laurence Richard, M.D. (*Tulane Univ.*) 1904,	*New Orleans, La.*
Delisle, Jean Baptiste, A.B. (*Laval Univ.*) 1888, M.D. (*ibid.*) 1892,	*St. George de Windsor, Can.*
Derr, John Sebastien, M.D. (*Univ. of Virginia*) 1905,	*Boston.*
Donoghue, James Crowley, M.D. 1898,	*Boston.*
Ela, Paul Francis, A.B. (*Wesleyan Univ.*) 1884, A.M. (*ibid.*) 1888, M.D. (*Harvard Med. Sch.*) 1894,	*E. Douglas.*
Emery, William Campbell,	*Dorchester.*
Finkelstein, Harry, M.D. 1904,	*Boston.*
Forbes, Alexander, A.B. 1904, A.M. 1905,	*Milton.*
Foster, Horace Kendall, M.D. (*Dartmouth Med. Coll.*) 1882,	*Peabody.*
French, Ralph Winward, A.B. 1907,	*Fall River.*
Frink, Carroll Hateley, D.D.S. (*Baltimore Coll. of Dental Surgery*),	*Fernandina, Fla.*

Gamble, James Lander, A.B. (*Leland Stanford Jr. Univ.*) 1906,	*Paris, Ky.*
Grandy, Charles Rollin, A.B. (*Univ. of Virginia*) 1889, M.D. (*ibid.*) 1892,	*Norfolk, Va.*
Guittard, Virgil David, M.D. (*Ohio Med. Univ.*) 1907,	*Columbus, O.*
Hacker, Christian Gottlieb, PH.G. (*Albany Coll. of Pharm.*) 1896, M.D. (*Albany Med. Coll.*) 1899,	*Albany, N.Y.*
Hamilton, Burton Everett, A.B. 1907,	*Roxbury.*
Hammond, Charles, M.D. (*Yale Med. Sch.*) 1904,	*Hanover.*
Harrington, Amos Thomson, A.B. (*Yale Univ.*) 1894, S.T.B. (*ibid.*) 1897,	*Jamaica Plain.*
Hawkes, Charles Eleazer, A.B. 1898, M.D. 1901,	*Providence, R.I.*
Hellmann, Robert Richard, A.B. 1906,	*Cincinnati, O.*
Herr, Edward Albert, A.B. (*Dartmouth Coll.*) 1906,	*Waterbury, Conn.*
Hornor, Albert Aurelius, A.B. (*Univ. of Virginia*) 1907,	*Helena, Ark.*
Hovorka, Thomas Wenceslaus, PHARM.D. (*Univ. of Minnesota Coll. of Pharm.*) 1894, M.D. (*Hamline Univ.*) 1902,	*Glencoe, Minn.*
Howes, Frank Miller, A.B. 1907,	*Rockland.*
Hunt, Arthur Leroy, A.B. (*Bowdoin Coll.*) 1898, M.D. (*George Washington Univ.*) 1905,	*Washington, D.C.*
Hunt, Harold Otis,	*Newtonville.*
Irving, Frederick Carpenter, A.B. 1906,	*Ogdensburg, N.Y.*
Ish, George William Stanley, A.B. (*Yale Univ.*) 1905,	*Little Rock, Ark.*
Jobbing, James Wesley, M.D. (*Tennessee Med. Coll.*) 1896,	*New York, N.Y.*
Kellogg, Foster Standish, A.B. 1906,	*Boston.*
Kennison, Frederick Marshman, M.D. (*Tufts Med. Sch.*) 1905,	*Dorchester.*
Kerr, Isabelle Dickieson, M.D. (*Tufts Med. Sch.*) 1903,	*Boston.*
Key, Sothoron, M.S. (*Maryland Agricul. Coll.*) 1895, M.D. (*Columbia Univ.*) 1899,	*Washington, D.C.*
Larrabee, Frank Walton, A.B. (*Bates Coll.*) 1891, M.D. (*Dartmouth Med. Sch.*) 1896,	*Westerly, R.I.*
Lazarus, Louis, A.B. 1906,	*Hull.*
Lee, Bieyao Tsanchi, B.C.E. (*Tientsin Univ., China*) 1899,	*Wuchow, China.*
Little, George Thomas, M.D. 1902,	*No. Uxbridge.*

McKeage, Robert Burns, M.D. (*Medico-Chirurgical Coll., Philadelphia*) 1893,	*Scranton, Pa.*
MacMichael, Earle Haggett, A.B. (*Bowdoin Coll.*) 1907,	*E. Boston.*
McNabb, Charles Porter, M.D. (*Univ. of Tennessee*) 1884,	*Knoxville, Tenn.*
Maddox, Robert Daniel, M.D. (*Med. Coll. of Ohio*) 1900,	*Cincinnati, O.*
Mahoney, Matthew Patrick, A.B. (*Georgetown Univ.*) 1906,	*Lowell.*
Marble, Henry Chase, A.B. (*Clark Univ.*) 1906,	*Worcester.*
Marshall, William Reginald, M.D. (*Baltimore Med. Coll.*),	*Lynn.*
Mason, Robin Ferguson, M.D. (*Memphis Hosp. Med. Coll.*) 1908,	*Memphis, Tenn.*
Meader, Charles Nash, A.B. (*Colby Coll.*) 1906,	*Waterville, Me.*
Mendenhall, Walter Leslie, M.D. (*Drake Med. Coll.*) 1906,	*Des Moines, Ia.*
Merrill, William Howe, M.D. (*Maine Med. Sch.*) 1888,	*Lawrence.*
Miller, Richard Henry, A.B. 1905,	*Fitchburg.*
Mohoney, John Lewis, M.D. (*Boston Univ. Sch. of Med.*) 1898,	*Boston.*
Moore, George Albert, S.B. 1907,	*No. Monroe, N.H.*
Moriarty, James Liguori, M.D. 1896,	*Waterbury, Conn.*
Morse, Mary Elizabeth, A.B. (*Woman's Coll. of Baltimore*) 1899, M.D. (*Johns Hopkins Med. Sch.*) 1903,	*Baltimore, Md.*
Nabers, Samuel Faust, D.D.S. (*Univ. of Pennsylvania*) 1895,	*Birmingham, Ala.*
Nagle, Evelyn Wyman, M.D. (*Woman's Med. Coll. of Pennsylvania*) 1903,	*Boston.*
Nahigan, Matthew Nigohos, M.D. (*Yale Med. Sch.*) 1907,	*Worcester.*
O'Connor, Joseph Sylvester,	*Worcester.*
Ostergren, Christian Wilhelm,	*Boston.*
Outhouse, John Stanley, A.B. (*Mt. Allison Univ.*) 1894, M.D., C.M. (*McGill Univ.*) 1898,	*Shelburne Falls.*
Paroni, Romilda, S.B. (*Univ. of California*) 1903, M.D. (*ibid.*) 1907,	*Berkeley, Cal.*
Pease, Edmund Morris, A.B. (*Pomona Coll.*) 1904,	*Claremont, Cal.*
Phelan, Edward Francis,	*Ludlow, Vt.*
Porter, Emery Moulton, PH.B. (*Brown Univ.*) 1906,	*Boston.*

Poulin, James Edward, M.D. (*Med. Sch. of Maine*) 1905,	*Waterville, Me.*
Ramstad, Niles Oliver, M.D. (*Univ. of Minnesota*) 1899,	*Bismarck, No. Dak.*
Ray, Charles James, M.D. (*Cleveland Med. Coll.*) 1895,	*Findlay, O.*
Richardson, Clarence Hudson, A.B. (*Lincoln Univ.*) 1901,	*Philadelphia, Pa.*
Richardson, Henry Stephen, A.B. (*Amherst Coll.*) 1904,	*Franklin.*
Riddle, Lincoln Ware, A.B. 1902, PH.D. 1906,	*Wellesley.*
Robinson, Philip Eaton, A.M. (*Tufts Med. Sch.*) 1904,	*Boston.*
Rockwell, John Arnold, Jr., S.B. (*Mass. Inst. of Tech.*) 1896, M.D. (*Boston Univ. Sch. of Med.*) 1899,	*Cambridge.*
Ross, Fred Ernest, M.D. (*Univ. of Buffalo*) 1897,	*Erie, Pa.*
Ruble, Wells Allen, S.B. (*Battle Creek Coll.*) 1897, M.D. (*American Med. Missionary Coll.*) 1906,	*Washington, D.C.*
Russell, James Percy, A.B. (*Bowdoin Coll.*) 1897, M.D. (*Med. Sch. of Maine*) 1903,	*Robbinston, Me.*
Ryder, Charles Tripp, A.B. 1906,	*Andover.*
Schwarz, Joseph, S.B. (*Alabama Polytechnic Inst.*) 1898, M.D. (*Univ. of Tulane*) 1901,	*Mobile, Ala.*
Sellers, Neal Edward, M.D. (*Univ. of Alabama*) 1905,	*Mobile, Ala.*
Shedd, George Harold, A.B. 1905,	*No. Conway, N.H.*
Simonds, Otis Franklin, A.B. (*Bowdoin Coll.*) 1906,	*Portland, Me.*
Smedley, Robert Clemens, M.D. (*Univ. of Denver*) 1900,	*Salt Lake City, Utah.*
Somerville, William Glassel, A.B. (*Univ. of Alabama*) 1885, M.D. (*Coll. of Phys. and Surg., New York*) 1889,	*Tuscaloosa, Ala.*
Sproull, John, M.D. (*Boston Univ. Sch. of Med.*) 1901,	*Haverhill.*
Starr, Samuel,	*Roxbury.*
Stewart, John Howard, M.D. (*Syracuse Med. Coll.*) 1908,	*So. Plymouth, N. Y.*
Stick, Edward Wentz, A.B. (*Franklin and Marshall Coll.*) 1904,	*Hanover, Pa.*
Stitt, Edward Rhodes, A.B. (*So. Carolina Coll.*) 1885, M.D. (*Univ. of Pennsylvania*) 1889,	*Rock Hill, S.C.*

Stone, Murray Chaffee, M.D. 1903,	*Fitchburg.*
Terrell, Alexander Bismarck, S.B. (*Univ. of Chicago*) 1907,	*Forth Worth, Tex.*
Tishler, Mark, D.M.D. (*Tufts Dental Sch.*) 1907,	*Boston.*
Trimble, William Kerk, M.D. (*Kansas City Med. Coll.*) 1900,	*Kansas City, Mo.*
Turner, William George, M.D. (*Baltimore Med. Coll.*) 1904,	*Fall River.*
Wagner, Charles Jacob, M.D. (*Southwestern Univ.*) 1908,	*Dallas, Tex.*
Walker, Joseph, M.D. (*Jefferson Med. Coll.*) 1908,	*St. George, Utah.*
Walsh, John Gormley, A.B. (*Brown Univ.*) 1906,	*Providence, R.I.*
Walsh, Thomas Nelson, A.B. (*McGill Univ.*) 1889, M.D. (*ibid.*) 1902,	*Hawkeye, Ia.*
Wesselhoeft, Conrad,	*Cambridge.*
Woolery, Homer, A.B. (*Indiana Univ.*) 1897, M.D. (*ibid.*) 1907,	*Bloomington, Ind.*
Yew, Foh-chung,	*New Haven, Conn.*

SUMMARY.

In Courses for Graduates, 1908–09 (to Nov. 9)	40
Fourth Class	52
Third Class	71
Second Class	97
First Class	57
Special Students	11
Total	328

In Courses for Graduates, 1907–08, after publication of the Catalogue for 1907–08	48
In Summer Courses, 1908	137

GRADUATES OF COLLEGES.

Acadia College	1
Amherst College	6
Anatolia College (Turkey)	1
Bates College	3
Boston College	2
Boston University	2
Bowdoin College	6
Brown University	20
University of California	2
Carleton College	1
University of Chicago	1
Christian Brothers' College (St. Louis)	1
Clark University	5
Colby College	4
Colgate University	2
Colorado College	3
Cornell University	1
Dartmouth College	8
Davidson College	1
Earlham College	1
Georgetown University	1
Gonzaga College	1
Harvard University	108
Holy Cross College	13
University of Illinois	4
Kansas University	1
Laval University	1
Leland Stanford Jr. University	10
Lincoln University	1
Massachusetts Institute of Technology	1
State University of Iowa	1
University of Michigan	2
University of Missouri	2
University of New Brunswick	2
University of North Carolina	1
Northwestern University	1
University of Notre Dame	1
University of Oklahoma	1
Pennsylvania College	1
Princeton University	4
Purdue University	1
Richmond College	1
University of Rochester	2
Royal Liceo Gioberti (Turin, Italy)	1
St. Francis Xavier's College	1
South Dakota State College	1
Syracuse University	1
Syrian Protestant College	1
Trinity College (Conn.)	1
Tufts College	1
University of Virginia	1
Washington and Jefferson College	1
Wesleyan University	1
Westminster College	1
William Jewell College	1
Williams College	4
University of Wisconsin	1
University of Wooster	1
Worcester Polytechnic Institute	1
Yale University	6
Total	257
Counted more than once	3
Total Number College Graduates	254
Number of Colleges	60

JUL 1965
WESBY